

CATALOGUE OF ANIMALS COLLECTED BY THE GEOGRAPHICAL
AND EXPLORING COMMISSION OF THE REPUBLIC OF MEXICO.

By FERNANDO FERRARI-PEREZ,

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PREFATORY NOTE.

The Geographical and Exploring Commission of the Republic of Mexico was established by an act of Congress in the year 1877 at the recommendation of the President of the Republic, General Porfirio Diaz, and finally organized at the end of 1878. At that time the Commission consisted only of the Director, Mr. Agustin Diaz, C. E., who still holds the same position, and four more engineers detailed by the Department of Public Works (Secretaría de Fomento). The original object of the Commission was the preparation of a general map of the Republic, the previous non-existence of such a map being due to the accidental loss of the plans and the data pertaining to an earlier topographical survey of the country.

In view of the important results obtained during a short period of work, and at the suggestion of the Director, the Secretary of War, toward the end of 1879, resolved to approve the augmentation of the Commission by ten officers, engineers of the scientific corps of the general staff, and to appoint the present writer as Naturalist of the Commission. By this enlargement the Commission obtained such palpable results that the Government was subsequently induced to increase its facilities by appointing additional members whenever it was found desirable, until the Commission now consists of twenty engineers appointed by the Secretary of Public Works and thirty by the Secretary of War.

In the astronomical, geodetic, and topographical branches the following results have been obtained to date: 26 plans of cities, towns, and villages, some drawn to a scale of 1: 5,000 and others to a scale of 1: 10,000; 13 sheets of the topographical chart of the surroundings of Pueblo to a scale of 1: 20,000, already published; 30 sheets of the geographical chart of the Republic to a scale of 1: 100,000 (the publication of which by the Government has not yet been consummated), each one of these sheets comprising an area of 212,000 hectares, consequently the thirty sheets already completed have together a total area of 6,360,000 hectares, equal to 15,715,560 acres. Each one of these sheets is accompanied by a volume constituting an atlas which contains on a large scale all the details and data pertaining to its history. The following States are represented in their entire extent: The Federal District, Puebla, Tlaxcala, and Morelos; while only portions of Hidalgo, Mexico, Vera Cruz, Nuevo Leon, and Tamaulipas are included. Special maps of each State will be published as soon as all the sheets of the general

map containing portions of a particular State shall have been finished. Every plan, map, or portion of a map prepared by the Geographical Commission carries an inscription indicating the date of its preparation, the persons by whom it has been prepared, and, in general, all the explanations necessary to elucidate the history of its construction and the degree of reliance which can be placed in it; the numerical data included in the tables being referred to points plainly visible and perfectly fixed. This system, introduced by the Commission, has the advantage of establishing several points of comparison which in future work may be utilized for reference. The methods employed are the most exact ones known which can be adapted to the circumstances of the country, several new methods rendered necessary by special topographical conditions having been devised by the Director.

The work at the offices has been considerably facilitated by the establishment of small lithographic and photographic galleries at the headquarters of the Commission. At the former are printed the different kinds of blanks and diagrams for the scientific service, including the schemes for the geodetic and astronomical calculations, which when brought together form a collection illustrating the methods and instruments rendered necessary by peculiar circumstances of travel and transportation. By means of these schemes there has been obtained a much greater promptness in the work, more exact interpretation of the signs in the employment of the formulas, and a uniformity which permits an easy revision of the calculations should any be desired. In the photographic gallery the reduction of the maps for different purposes is made.

In the natural history division of the Commission the work has thus far consisted in the preparation of a part of the geological map, corresponding to two sheets of the general map, at a scale of 1:100,000, and in bringing together an extensive collection of specimens of the different branches of natural history, catalogues of which will appear in these "Proceedings."

The considerable expense necessary for the acquisition of the very costly instruments to be used by the astronomical and topographical division of the Commission has not yet permitted in the natural history division the formation of a library sufficiently complete to insure the success of its work. For that reason no formal publication has been attempted as yet; but when General Porfirio Diaz, who fully appreciates the importance of the work of the Commission, ordered it to take part in the Exposition at New Orleans, the collections of natural history objects were shipped in advance in order to have the identifications of the specimens revised and completed before the opening of the Exposition. Unfortunately, the steamer (the City of Merida) in which they were shipped to New York was burned at Havana on the 29th of August, 1884, causing the loss of the entire collection, consisting of 123 boxes, besides all the baggage of the present writer, wherein was included all the manuscripts pertaining to the collections. The Commission, desir-

ous of repairing this loss as soon as possible, and of sending at least some specimens to the Exposition, in order to profit by the opportunity of having them exactly identified by comparison with specimens in the rich collections of the United States, proceeded with all possible activity to collect new material during the months of October, November, December, and part of January. The collections thus obtained were packed during the latter part of January and shipped about the middle of February to New Orleans. At the Exposition the Grand Diploma of Honor was awarded to the Commission for the excellence of its exhibit as a whole.

In selecting the scientific establishment wherein to make the necessary comparisons and identifications, the Director of the Commission decided upon the United States National Museum, in charge of the Smithsonian Institution, on account of its world-wide reputation, to the great satisfaction of the present writer, who, had it rested with him alone, should have made no other selection, attracted as he was by the kind courtesies received from the celebrated Director of the above-named establishment, Prof. S. F. Baird, who has provided the naturalists of the Commission with all the facilities at his command in order to assist in the execution of our task. We profit by this opportunity to express our profound gratitude for the very kind interest manifested by him in our work.

I.—MAMMALS.

BY F. FERRARI-PEREZ.

The difficulty of collecting and preserving mammals accounts for the insignificant number of specimens which we were able to bring together during the short time between the destruction of the original collection by the conflagration and the opening of the exposition. All those numbered in the following brief list have been verified by Prof. Frederick W. True, the curator of the department of mammals.

FAM. EMBALLOONURIDÆ.

1. *Molossus rufus* Et. Geoffroy.

Molossus rufus Et. Geoffroy, Ann. du Mus., VI, 1805, p. 154. Alston, Biol. Centr. Am. Mam., 1879-82, p. 31.

Vulg.—Murciélagos, Raton viejo.

Hab.—State of Chiapas: ? No. 6 ♂ ad., 8 ♀ juv., 9 ♂ juv.

2. *Molossus glaucinus* (Wagner).

Dysopes glaucinus Natt., Wagner, Wieg. Archiv, 1843, p. 368.

Molossus glaucinus Dobson, P. Z. S., 1876, p. 714, fig. 2; Cat. Chirop. Brit. Mus., 1878, p. 417.

Vulg.—Murciélagos, Raton viejo.

FAM. PHYLLOSTOMIDÆ.

3. *Artibeus perspicillatus* (Linnæus).

Vesperilio perspicillatus Linnaeus, Syst. Nat., 10th ed., I, 1758, p. 31.

Artibeus perspicillatus Gray, Mag. Zool. & Bot., II, 1839, p. 487. Alston, Biol. Centr. Am. Mam., 1879-82, p. 47.

Vulg.—Murciélagos, Raton viejo.

Hab.—State of Vera Cruz: Jalapa, No. 275 ♂, 276 ♂.

State of Chiapas: ? No. 1 ♀, 2 ♂ juv., 3 ♀, 4 ♂ juv.

4. *Vampyrops lineatus* (Et. Geoffroy).

Phyllostoma lineatum Et. Geoffroy, Ann. du Mus., XV, 1810, p. 180.

Vampyrops lineatus Peters, Monatsb. Ak. Berl., 1865, p. 356. Alston, Biol. Centr. Am. Mam., 1879-82, p. 48.

Vulg.—Murciélagos, Raton viejo.

Hab.—State of Chiapas: ? No. 7 ♀.

FAM. FELIDÆ.

5. *Felis tigrina* (Erxleben).

Felis tigrina Erxleben, Syst. Reg. An., 1777, p. 517. Alston, Biol. Centr. Am. Mam., 1879-82, p. 61.

Vulg.—Figrillo.

Hab.—State of Vera Cruz: Jalapa, No. 326 ♂.

6. *Lynx rufus* (Guldenstädt).

Felis rufa Guldenstädt, Nov. Comm. Petrop., XX, 1776, p. 499.

Lynx rufus Rafinesque, Am. Month. Mag., II, 1817, p. 46.

Felis rufa Alston, Biol. Centr. Am. Mam., 1879-82, p. 64.

Vulg.—Gato montes de cola corta.

Hab.—State of Puebla: Tstatechualt (S. Martin Texmelucan), No. 295 ♂, August.

FAM. PROCYONIDÆ.

7. *Bassaris astuta* Wagler.

Bassaris astuta Lichtenstein, Abh. Ak. Berl., 1827, p. 119 (descr. nulla). Wagler, Isis, 1831, p. 513, (descr. orig.). Alston, Biol. Centr. Am. Mam., 1879-82, p. 72.

Vulg.—Cacomistle.

Hab.—State of Puebla: Puebla, No. 12 ♀, February.

8. *Cercoleptes caudivolvulus* (Pallas).

Virerra caudivolvula Pallas in Schreber's Säugth., III, 1777, p. 453, pl. CXXV. B.

Cercoleptes caudivolvulus, Tomes, P. Z. S., 1861, p. 280. Alston, Biol. Centr. Am. Mam., 1879-82, p. 76.

Vulg.—Marta, Martucha.

Hab.—State of Vera Cruz: Jalapa, No. 297 ♂.

FAM. MUSTELIDÆ.

9. *Putorius brasiliensis frenatus* (Lichtenstein).*Mustela frenata* Lichenstein, Darst. new Säugt., 1834, pl. XLII.*Putorius (Gale) brasiliensis frenatus* Coues, Fur-bearing An., 1877, p. 142.*Mustela brasiliensis* Alston, Biol. Centr. Am. Mam., 1879-'82, 78.*Vulg.*—Ouzita, Comadreja.*Hab.*—State of Puebla: Huexotitla, No. 309 ♂, January.

FAM. SCIURIDÆ.

10. *Sciurus aureogaster* F. Cuvier.*Sciurus aureogaster* F. Cuvier, Hist. Mam. III, livr. LIX, 1829 (with a fig.).*Sciurus variegatus*, Alston, Biol. Centr. Am. Mam., 1879-'82, p. 127.*Vulg.*—Ardilla canela, Ardillon canels.*Hab.*—State of Vera Cruz: Jalapa, No. 313 ♂.11. *Spermophilus grammurus* (Say).*Sciurus grammurus* Say Long's Expl. Rock. Mount., II, 1823, p. 72.*Spermophilus grammurus* Alston, Biol. Centr. Am. Mam., 1879-'82, p. 136.*Vulg.*—Ardillon, Ardilla pinta de tierra.*Hab.*—State of Puebla: S. Salvador el Verde (Huejoeingo), No. 308 ♀, September.12. *Spermophilus mexicanus* (Lichtenstein).*Citillus Mexicanus* Lichtenstein, Darstel. Säugt., 1827-34 (not paged), tab. XXXI, fig. 2.*Spermophilus Mexicanus* Wagner, Suppl. Schreb., III, 1843, p. 250. Alston, Biol. Centr. Am. Mam., 1879-'82, p. 137.*Vulg.*—Huron, Moto, Ardilla.*Hab.*—State of Puebla: Puebla, No. 312 ♂.

FAM. GEOMYIDÆ.

13. *Geomys mexicanus* (Lichtenstein).*Ascomys mexicanus* Lichtenstein, Abh. Ak. Berl., 1827, p. 113 (1830, descr. orig.).*Geomys mexicanus* Richardson, Sixth Ann. Rep. Brit. Assoc. Adv. Sci., 1836, 1837, p. 150. Alston, Biol. Centr. Am. Mam., 1879-'82, p. 159.*Vulg.*—Tuza.*Hab.*—State of Puebla: S. Isidro (Puebla), No. 319 ♂, September.14. *Geomys* sp?*Vulg.*—Tuza.*Hab.*—State of Chiapas: ? No. 11, 12.

The present species is only represented by two extremely young specimens. The careful examination of their crania by Mr. True and myself revealed features considerably different from those of the other species known, but as the U. S. National Museum possesses no specimens of exactly corresponding age it has been thought prudent to await the arrival of additional material before expressing any definite opinion.

FAM. HYSTRICIDÆ.

15. *Synetheres mexicanus* (Kerr).

Hystrix mexicana Kerr, Linn. An. Kingd., p. 214 (1792, ex Pennant).
Synetheres mexicanus Alston, Biol. Centr. Am. Mam., 1879-82, p. 170.

Vulg.—Huistlacuachi, Bistlacuachi, Hoitztlacuatzin.

Hab.—State of Vera Cruz: Jalapa, No. 328 ♂.

FAM. LEPORIDÆ.

16. *Lepus sylvaticus* Bachman.

Lepus sylvaticus Bachman, Jonr. Ac. Philad. VII, 1837, p. 403. Alston, Biol. Centr. Am. Mam. 1879-82, p. 176.

Vulg.—Conejo real.

Hab.—State of Puebla: Atlixe, No. 316 ♂.

FAM. DASYPODIDÆ.

17. *Tatusia novemcincta* (Linnaeus).

Dasypus novemcinctus, Linnaeus, Syst. Nat. I, 1758, p. 51.
Tatusia novemcincta Alston, Biol. Centr. Am. Mam. 1879-82, p. 188.

Vulg.—Armadillo.

Hab.—State of Vera Cruz: Jalapa, No. 332 ♂, juv., 332a ♀, juv.

FAM. DIDELPHIDÆ.

18. *Didelphis virginiana* Kerr.

Didelphis virginiana Kerr, Linn. An. Kingd., p. 193 (1792, ex Pennant).
Didelphys virginiana Alston, Biol. Centr. Am. Mam. 1879-82, p. 196.

Vulg.—Tlacuachi, Tlacuache, Tlacoatzin.

Hab.—State of Vera Cruz: Jalapa, No. 327 ♂, 327a ♀.

II.—BIRDS.

By F. FERRARI PEREZ.

WITH DESCRIPTIONS OF FIVE NEW SPECIES, AND CRITICAL REMARKS ON OTHERS OF GREAT OR LESS RARITY OR INTEREST.

By ROBERT RIDGWAY.

During the preparation of the present list we have had the benefit of free access to the rich collection of birds in the U. S. National Museum, consisting of 39,000 specimens of the reserve or study skin series, 7,000 mounted specimens of the exhibition series, 7,500 duplicates for exchange, and 2,500 birds in alcohol, making a total of 56,000 specimens actually in existence. No less useful to me, or even more so, has been the active and intelligent assistance of Prof. Robert Ridgway, the curator of the department of birds, and I have also received some benefit from Dr. L. Stejneger's intimate knowledge of the ornithological literature; both these gentlemen have taken the greatest pleasure in facil-

tating my work, permitting me with great kindness and liberality to consult and use their valuable manuscripts. It is a pleasant duty for me to hereby acknowledge publicly my gratitude.

The present catalogue is only the initial step to a more extensive work on the birds of Mexico, which the Geographical and Exploring Commission intends to publish at some future time.

It will be perceived that the rules of nomenclature adopted by the "American Ornithologists' Union" have been followed, while Messrs. Selater and Salvin's "Nomenclator Avium Neotropicalium" has been adhered to as regards the sequence of the families. The sex, locality, and date of each specimen have been noted with great care at the time of collecting, and in case where any doubt has arisen as to the accuracy of a particular statement caused by some unavoidable accident, it has been entirely suppressed or marked with a query; all other statements not thus marked are entirely reliable.

FAM. TURDIDÆ.

1. *Turdus aonalaschkæ auduboni* (Baird).

Turdus auduboni Baird, Rev. of Am. Birds, p. 16; Salv. & Godm., Biol. Centr. Am. Aves, I, p. 14.

Turdus aonalaschkæ auduboni Ridgw., Proc. U. S. Nat. Mus., III, p. 1.

Vulg.—Mirlo.

Hab.—State of Puebla: Chachapa, No. 50a ♀, May.

2. *Ridgwayia pinicola* (Selater).

Turdus pinicola, Selater, P. Z. S., 1859, p. 334. Salv. & Godm., Biol. Centr. Am. Aves, I, p. 23.

Ridgwayia pinicola, Stejneger, Proc. U. S. Nat. Mus., 1882, p. 460.

Vulg.—Primavera.

Hab.—State of Puebla: Teziutlan, No. 188a ♀, November.

[An adult (?) female from Teziutlan, State of Puebla (November, 1884), is in general appearance much like an Orizaba specimen in the National Museum collection (No. 37472, F. Sumichrast), but differs as follows: The whitish portions of the plumage incline more decidedly to dull buff or light isabella color, except the edgings on basal half of the outer webs of the secondaries and the patch at base of the primaries, which are quite pure white; the lighter streaks of the head and neck are broader and more distinct. The differences are perhaps seasonal, the Orizaba specimen being apparently in spring or summer plumage. Wing, 5.30; tail, 3.40; culmen, .90; bill from basal fossa, .45; gony, .40; tarsus, .95; middle toe, .85.—R. R.]

3. *Merula tristis* Swainson.

Merula tristis Swainson, Phil. Mag., New Ser., 1827, p. 369.

Turdus tristis Salvin & Godman, Biol. Centr. Am. Zool. Av., I, 1879, p. 15.

Hab.—State of Vera Cruz: Jalapa, No. 390 ♂, Augnst.

4. *Merula grayi* (Bonaparte).

Turdus grayi Bonaparte, P. Z. S., 1837, p. 118; Salvin & Godman, Biol. Centr. Am. Zool. Av., I, 1879, p. 18.
Merula grayi Ridgway, Proc. U. S. Nat. Mus., V, 1882, p. 386.

Vulg.—Primavera.

Hab.—State of Vera Cruz: Jalapa, No. 356 ♀, juv., September.

5. *Merula migratoria propinqua*, Ridgway.

Turdus propinquus, Ridgw., Bull. of the Nutt. Club, II, p. 9.
Merula migratoria propinqua, Ridgw., Nom. of N. A. Birds, p. 11.
Turdus migratorius, Linn. in Salv. & Godm. Biol. Centr. Am. Aves, I, p. 20.

Vulg.—Primavera café.

Hab.—State of Puebla: Teziutlan, No. 189 ♂, November.

6. *Merula flavirostris*, Swainson.

Merula flavirostris, Swains., Phil. Mag., New Ser., I, p. 369.
Turdus flavirostris, Salv. & Godm., Biol. Centr. Am. Aves, I, p. 21.

Vulg.—Primavera, Chivillo.

Hab.—State of Puebla: Chietla, No. 171 ♂, No. 171a ♀, December; Chiantla, No. 355 ♂.

7. *Melanotis cærulescens* (Swains.).

Orpheus cærulescens, Swains., Phil. Mag., New Ser., I, p. 369.
Melanotis cærulescens, Bonap. Comp., I, 1850, p. 276; Salv. & Godm., Biol. Centr. Am. Aves, I, p. 28.

Vulg.—Mulato, Primavera.

Hab.—State of Puebla: Chietla, No. 167 ♂, 167a ♀, December. State of Vera Cruz: Jalapa, No. 374 ♂, 375 ♂, 471 ♂, August.

8. *Harporhynchus curvirostris* (Swains.).

Orpheus curvirostris, Swains., Phil. Mag., New Ser., I, p. 369.
Harporhynchus curvirostris, Caban., Mus. Hein., I, 1850, p. 81; Salvin & Godman, Biol. Centr. Am. Aves, I, p. 32.

Vulg.—Cuitlacoche de pecho pinto oscuro.

Hab.—State of Puebla: No. 233a ♀, Chietla, December.

[An adult female from Chietla, State of Pueblo (December, 1884), agrees with examples from the Rio Grande Valley, and is no smaller, its measurements, compared with those of No. 73681, Hidalgo, Texas (April 17; G. B. Sennett), being as follows:

♀ from Puebla ...	4.10	4.30	1.30	.95	1.30	1.00
♀ from Texas ...	3.95	4.20	1.35	.95	1.25	.95

R. R.]

9. *Mimus polyglottos* (Linn.).

Turdus polyglottos, Linn., Syst. Nat., I, p. 169.
Mimus polyglottos, Bonap.; Salv. & Godm., Biol. Centr. Am., Aves, I, p. 35.

Vulg.—Centrontle.

Hab.—State of Puebla. No. 173 ♂, No. 173a ♀, Chietla, December.

FAM. SYLVIIDÆ.

10. *Myadestes obscurus*, Lafr.*Myadestes obscurus*, Lafr., Rev. Zool., 1839, p. 98.*Myiadectes obscurus*, Salvin & Godman, Biol. Centr. Am., Aves, I, p. 40.*Vulg.*—Clarin.*Hab.*—State of Puebla. No. 161 ♂, Teziutlan, November.

[An adult male from Teziutlan, State of Puebla (November, 1884), is essentially identical in coloration and other characters with examples from Orizaba, Vera Cruz. (Cf. STEJNEGER, Proc. U. S. Nat. Mus., iv, 1881, p. 371.)—R. R.]

11. *Sialia azurea*, Baird.*Sialia azurea*, Baird, Review of American Birds, I, p. 62.*Sialia azurea?* Swains., Phil. Mag., New Ser. (1827), I, p. 369 (descr. nulla).*Sialia sialis*, Salv. & Godm., Biol. Centr. Am., Aves, I, p. 45.*Vulg.*—Tempestad.

Hab.—State of Puebla. S. Martin Texmeluecan, No. 75 ♂, December; No. 320 ♂, January.

State of Vera Cruz. Jalapa, Nos. 362 ♂, 389 ♂, 401 ♂, 406 ♂, August.

[Two adult males from S. Martin Texmeluecan, State of Puebla (December, 1884, and January, 1885), agree strictly with other Mexican examples in those characters which separate *S. azurea* from *S. sialis*.] These consist in (1) the decidedly more greenish shade of the blue, (2) decidedly lighter and less purplish tint of the breast, etc., and (3) the encroachment of the latter over the malar region and sides of the neck. In *S. sialis* the malar region is wholly blue, like the auriculars, the chin itself usually blue, and the sides of the neck are mostly blue. In *S. azurea*, on the other hand, the chin and anterior portion of the malar region are whitish, the posterior half or more of the malar region cinnamon-rufous, like the throat, and the sides of the neck chiefly cinnamon-rufous, this color even sometimes nearly meeting across the cervix. The two specimens measure as follows:

Number.	Date.	Wing.	Tail.	Bill from nostril.	Tarsus.	Middle toe.
No. 75. . .	Dec., 1884.	4.10	2.70	.35	.85	.69
No. 320. . .	Jan., 1885.	4.10	2.80	.35	.80	.58

R. R.]

12. *Regulus calendula* (Linn.).*Motacilla calendula*, Linn., Syst. Nat., ed. 12, I, 1766, p. 337.*Regulus calendula*, Licht., Verz. Doubl., 1823, No. 408; Salv. & God., Biol. Centr. Am., Aves, I, p. 49.*Vulg.*—Verdin aplomado, Verdin de moño colorado.*Hab.*—State of Puebla. No. 128 ♂, Teziutlan, November; No. 11 ♀, Garita de Tlaxcalor, in the city of Puebla.

13. *Polioptila cærulea* (Linn.).

Motacilla cærulea, Linn., Syst. Nat., 12, I, 1766, p. 337.

Polioptila cærulea, ScL., P. Z. S., 1855, p. 11; Salv. & God., Biol. Centr. Am., Aves, I, p. 59.

Vulg.—Pespírria, Papamoscas aplomadito.

Hab.—State of Puebla. Puebla, No. 10 ♂.

FAM. PARIDÆ.

14. *Psaltriparus melanotis* (Hartl.).

Parus melanotis, Hartl., Rev. Zool., 1844, p. 216.

Psaltriparus melanotis, Bonap., Compt. Rend., XXXVIII, 1854, p. ; Salv. & Godm., Biol. Centr. Am., Aves, I, p. 58.

Vulg.—Sastre.

Hab.—State of Puebla. Teziutlan, No. 49 ♂, No. 49a ♀, November.

[An adult female, almost certainly of this species, differs from the male in the absence of any black on the head, except an indistinct, though rather broad streak along the sides of the occiput, above the auriculars. The auriculars and orbits are light grayish brown, fading into paler brown on the malar region and lores. It thus corresponds well with the *Psaltrites helvirentris*, of Cabanis, as described in the "Journal für Ornithologie" for July, 1881, p. 333, and figured on plate 4, fig. 1 of the same journal for October, 1881. A translation of Cabanis's description is as follows:

"Upper parts olive-gray, hood pure gray, back brown. Throat and sides of neck white. Chin, bridle, orbital and auricular region, as well as the lower breast, light brown. The gray hood is separated on both sides from the light brown sides of the head by a black stripe beginning behind the eye.

"The species is distinguished from the related *Psaltrites melanotis* by the light brown (not black) cheeks, and from *P. minimus* by the gray (not brown) hood.

"It inhabits Western Mexico (Tehuantepec?) (Mus. Berol.)."

Since the specimen referred to was obtained at the same time with a male of *P. melanotis* (at Teziutlan, in the State of Puebla, in November, 1884), while it agrees in all respects with the latter except in the coloration of the sides of the head, there can be no reasonable doubt that it is the same species and therefore that *P. helvirentris* must be considered as a synonym of *P. melanotis*.

The two specimens measure as follows:

♂	1.90	2.10	Iris "black."
♀	1.90	2.10	Iris yellow.

R. R.]

15. *Parus meridionalis*, ScL.

Parus meridionalis, ScL., P. Z. S., 1856, p. 293; 1857, p. 81; 1858, p. 299; 1859, p. 363; Salv. & God., Biol. Centr. Am., Aves, I, p. 57.

Vulg.—Valonceito.

Hab.—State of Puebla. Teziutlan, No. 142 ♂, November.

[A male from Teziutlan, November, 1884, is similar in plumage to specimens from Mirador and Orizaba, and measures as follows: Wing, 3.00; tail, 2.55; culmen, .42; tarsus, .70. The black of the throat extends backward 1.05 inches from the mental apex.—R. R.]

16. *Parus wollweberi* (Bonap.).

Lophophanes wollweberi, Bonap., Compt. Rend., XXXI, p. 478; Sal. & Godm., Biol. Centr. Am., Aves, I, p. 56.

Parus wollweberi, Henry, Pr. Phila. Acad., VII, 1855, p. 309.

Vulg.—Copetonicito, Obispillo.

Hab.—State of Puebla. Chachapa, No. 24 ♂, January; No. 23 ♂, March; No. 23a ♀, December.

[Three specimens from Chachapa, Puebla (March, 1884, December, 1884, and January, 1885). These appear to be undistinguishable from examples from New Mexico and Arizona. The longer feathers of the crest are very much recurved, and this character I have not observed in any of the United States specimens; but the latter are all dried skins, whereas the three Puebla specimens were mounted from the freshly killed birds, which may account for the difference. Their measurements are as follows:

	Wing.	Tail.	Culmen.	Tarsus.	
No. 24 ♂...	2.70	2.65	.38	.60	Col. Comision Geografica Exploradora de Mexico, January, 1885.
No. 23 ♂ ..	2.80	2.65	.40	.60	Col. Comision Geografica Exploradora de Mexico, March, 1884.
No. 23a ♀ ..	2.60	2.40	.40	.60	Col. Comision Geografica Exploradora de Mexico, December, 1884.

R. R.]

FAM. TROGLODYTIIDÆ.

17. *Campylorhynchus jocosus*, Sel.

Campylorhynchus jocosus, Sel., P. Z. S., 1859, p. 371; Salv. & Godm., Biol. Centr. Am., Aves, I, p. 66.

Vulg.—Saltapared alacranero.

Hab.—State of Puebla. Chietla, No. 45 ♂, No. 45a ♀, No. 143 ♂, December.

18. *Campylorhynchus zonatus* (Less.).

Picolaptes zonatus, Less., Cent. Zool., p. 210, t. 70.

Campylorhynchus zonatus, Gray, Gen. Birds, I, 1847, p. 159; Salv. & Godm., Biol. Centr. Am., Aves, I, p. 68.

Vulg.—Ayacatcho.

Hab.—State of Puebla. Mazatiopam (Tehuacan), No. 137 ♂, 137a ♀, November.—State of Vera Cruz. Jalapa, No. 360 ♂, 371 ♂, September.

19. *Salpinctes obsoletus* (Say).

Troglodytes obsoleta, Say, Long's Exp., II, p. 4.

Salpinctes obsoletus, Cab., Arch. f. Naturg., XIII, p. 323; Salv. & Godm., Biol. Centr. Am., Aves, I, p. 71.

Vulg.—Saltapared de barranca.

Hab.—State of Puebla. Puebla, No. 130 ♂, December.

20. *Henicorhina leucosticta* (Cab.).

Cyphorhinus leucostictus, Cab., Arch. f. Naturg., Jahrg. XIII, I, p. 206.

Heuicorhina leucosticta, Salv., P. Z. S., 1870, p. 181; Salv. & God., Biol. Centr. Am., Aves, I, p. 79.

Vulg.—Saltapared de Tular.

Hab.—State of Puebla. Teziutlan, No. 125 ♂, November.

21. *Thryothorus bewickii bairdi* (Salv. & Godm.).

Thryothorus bairdi, Salv. & Godm., Biol. Centr. Am., Aves, I, p. 95.

Thryothorus bewickii bairdi, Ridgw., Proc. of U. S. Nat. Mus., 1885, p. 354.

Vulg.—Saltapared aplomado.

Hab.—State of Puebla. Puebla, No. 6 ♂, No. 6a ♀, No. 28 ♂, December.

22. *Troglodytes brunneicollis* Sel.

Troglodytes brunneicollis, Sel., P. Z. S., 1858, p. 297, 1859, p. 372, 1862, p. 18;

Salv. & God., Biol. Centr. Am., Aves, I, p. 103.

Vulg.—Matracá.

Hab.—State of Puebla. Teziutlan, No. 141 ♂, December.

FAM. MOTACILLIDÆ.

23. *Anthus pensylvanicus* (Lath.).

Alauda pensylvanica, Lath., Synops. Supl., I, p. 287 (1787).

Anthus pensylvanicus, Thienem., Rhea, II, p. 171; Stejneger, Auk, I, p. 168.

Anthus ludovicianus, Sci., P. Z. S., 1856, p. 293; Salv. & Godm., Biol. Centr. Am., Aves, I, p. 108.

Vulg.—Alondra de la majada.

Hab.—State of Puebla. Puebla, No. 43 ♂; December.

24. *Anthus spragueii* (Aud.).

Alauda spragueii, And. B. Am. VII, 1843, 335, pl. 486.

Anthus spraguei, Baird, Rev. Am. B. I, 1864, 155.

Hab.—State of Puebla. Puebla, No. 43a ♀, December.

[This specimen extends the known southward range of the species about 1,000 miles in a direct line, the most southern previous record being Southeastern Texas. (NEHRLING, Bull. Nutt. Orn. Club, vii, 1882, p. 8.)—R. R.]

FAM. MNIOTILTIDÆ.

25. *Seiurus motacilla* (Vieillot).

Turdus motacilla, Vieillot, Ois. Am. Sept., II, 1807, p. 9, pl. 65.

Siurus motacilla, Coues, Bull. Nutt. Club, II, 1877, p. 33; Salvin & Godman, Biol. Centr. Am., Zool., Av., I, 1881, p. 147.

Hab.—State of Vera Cruz. Jalapa, No. 435 ♂, August.

26. *Mniotilla varia* (Linn.).

Motacilla varia, Linn., Syst. Nat., I, p. 333 (ed. duod.).

Mniotilla varia, Vieill., Nouv. Dict. d'Hist. Nat., XXI, 1818, p. 230; Salv. & Godm., Biol. Centr. Am., Aves, I, p. 110.

Vulg.—Verdin rayado del sauce.

Hab.—State of Puebla. Puebla, No. 14 ♂.

27. *Dendrcica virens* (Gmel.).

Motacilla virens, Gmel., Syst. Nat., I, p. 985.

Dendroica virens, Baird, B. N. Am., 1858, p. 267; Salv. & Godm., Biol. Centr. Am., Aves, I, p. 137.

Vulg.—Verdin de toca amarilla.

Hab.—State of Puebla. Teziutlan, No. 123 ♂, November.

28. *Dendroica chrysoparia*, Sel. & Salv.

Dendroica chrysoparia, Sel. & Salv., P. Z. S., 1860, p. 298; Salv. & Godm. Biol. Centr. Am., Aves, I, p. 139.

Vulg.—Verdin ocotero de toca amarilla.

Hab.—State of Puebla. Teziutlan, No. 106a ♀, December.

29. *Dendroica auduboni* (Towns.).

Sylvia auduboni, Towns., Journ. Ac. Phil., VII, p. 191.

Dendroica auduboni, Sel., P. Z. S., 1858, p. 298; Salv. & Godm., Biol. Centr. Am., Aves, I, p. 128.

Vulg.—Verdin de cola amarilla.

Hab.—State of Puebla. Puebla, No. 4 ♂, No. 4a ♀, December.

30. *Dendroica aestiva* (Gmel.).

Motacilla aestiva, Gmel., Syst. Nat., I, p. 996.

Dendroica aestiva, Baird, B. N. Am., 1858, p. 282; Salv. & Godm., Biol. Centr. Am., Aves, I, p. 124.

Vulg.—Verdin amarilla.

Hab.—State of Puebla. Chietla, No. 21 ♂, December.

31. *Geothlypis trichas occidentalis* Brewster.

Geothlypis trichas occidentalis, Brewster, Bull. Nutt. Ornith. Club, VIII, p. 159.

Geothlypis trichas, Salv. & Godm., Biol. Centr. Am., Aves, I, p. 150.

Vulg.—Verdin de antifaz.

Hab.—State of Puebla. Huexotitla, No. 26 ♂, January.—State of Tlaxcala. Laguna del Rosario, No. 26a ♀, No. 27a ♀, January.

32. *Sylvania pusilla* (Wils.).

Muscicapa pusilla, Wils., Am. Orn., II, p. 103, t. 26, p. 4.

Sylvania pusilla, Nutt., Man., I, 2d ed., 1840, p. 335.

Myiodioctes pusillus, Bonap., Cons., I, 1850, p. 315; Salv. & Godm., Biol. Centr. Am., Aves, I, p. 168.

Vulg.—Verdin de cabeza negra.

Hab.—State of Puebla. Puebla, No. 12a ♀, October; Huexotitla, No. 5 ♂, 5a ♀, November.

State of Vera Cruz. Jalapa, No. 368 ♂, No. 483 ♂. September.

33. *Setophaga miniata*, Swains.

Setophaga miniata, Swains., Phil. Mag., new ser., I, p. 368; Salv. & Godm., Biol. Centr. Am., Aves, I, p. 181.

Vulg.—Guajolotito.

Hab.—State of Puebla. Puebla, No. 9 ♂, October.

34. *Euthlypis lacrymosa* (Bonap.).

Basileuterus lacrymosus, Bonap., Comp., p. 314.

Euthlypis lacrymosa, Caban., Mus. Hein., I, p. 19 (note).

Setophaga lacrymosa, Salv. & Godm., Biol. Centr. Am., Aves, I, p. 184.

Vulg.—Saltapared amarillo.

Hab.—State of Puebla. Acatlan, No. 80 ♂.

35. *Ergaticus ruber* (Swains.).

Setophaga rubra, Swains., Phil. Mag., new ser., I, p. 368.

Ergaticus ruber, Ridgw., Proe. U. S. Nat. Mus., III, 1880, p. 174; Salv. & Godm., Biol. Centr. Am., Aves, I, p. 164.

Vulg.—Coloradito de patilla blanca.

Hab.—State of Puebla. Istateihuatl (Texmeluean), No. 15 ♂, September; Chachapa, No. 16 ♂, November; Teziutlan, No. 120 ♂, December.

36. *Icteria virens* (Linn.).

Turdus virens, Linn., Syst. Nat., ed. 10, I, p. 171.

Icteria virens, Baird, Rev. Am. Birds, I, p. 228.

Icteria viridis, Bonap., P. Z. S., 1837, p. 111; Salv. & Godm., Biol. Centr. Am. Aves, I, p. 157.

Vulg.—Calandria de agua.

Hab.—State of Puebla. Chietla, No. 62 ♂, No. 62a ♀, December.

FAM. VIREONIDÆ.

37. *Cyclorhis flaviventris*, Lafresnaye.

Cyc[laris] flaviventris, Lafresnaye, Rev. Zool., 1842, p. 133.

Hab.—State of Vera Cruz. Jalapa, No. 413 ♂, September; Plan del Rio, No. 486 ♀, August.

FAM. LANIIDÆ.

38. *Lanius ludovicianus excubitorides*, Swains.

Lanius excubitorides, Swains. Faun. Bor.-Am., II, p. 115. t. 34.

Lanius ludovicianus excubitorides, Cones, Key, 1872, p. 125.

Lanius ludovicianus, Salv. & Godm., Biol. Centr. Am., Aves, I, p. 213.

Vulg.—Pegareborda. Pájaro gato.

Hab.—State of Puebla. Huexotitla, No. 170 ♂, October; Puebla, No. 170a ♀, October.

[An adult male from Huexotitla, State of Puebla (October), agrees with examples from the Western United States, but is slightly smaller, the measurements being as follows: Wing, 3.75; tail, 3.90; culmen, .80; bill, from nostril, .48; depth, at base, .35; tarsus, 1.02; middle toe, .65.—R. R.]

FAM. AMPELIDÆ.

39. *Ampelis cedrorum* (Vieill.).

Bombycilla cedrorum, Vieill. Ois. Am., Sept., I, p. 85. t. 57.

Ampelis cedrorum, Gray, Gen. Birds, I, 1849, p. 278. Salv. & Godm., Biol. Centr. Am. Aves, I, p. 215.

Vulg.—Filomena, Burrito.

Hab.—State of Puebla. Rancho de Posada, No. 48a ♀, No. 108a ♀, March.

40. *Ptiliogonyx cinereus*, Swains.

Ptiliogonyx cinereus, Swains., Phil. Mag., new ser., I, p. 368.

Ptilogonyx cinereus, Salv. & Godm., Biol. Centr. Am. Aves, I, p. 217.

Vulg.—Jariipa, Filomena.

Hab.—State of Puebla. Teziutlan, No. 131 ♂, No. 131a ♀, November. State of Vera Cruz. Jalapa, No. 405 ♂, August; No. 386 ♂, September.

41. *Phainopepla nitens* (Swains.).

Ptilogonyx nitens, Swains., An. in Menag., p. 285.

Phainopepla nitens, Sel., P. Z. S., 1858, p. 543; Salv. & Godm., Biol. Centr. Am. Aves, I, p. 220.

Vulg.—Jilguero negro copeton.

Hab.—State of Puebla. Rancho del Aguacate, No. 46 ♂, April; Huehuetlan, No. 51 ♂, May.

FAM. HIRUNDINIDÆ.

42. *Progne leucogaster*, Baird.

Progne leucogaster, Baird, Rev. Am. Birds, I, p. 280.

Progne chalybea, Salv. & Godm., Biol. Centr. Am. Aves, I, p. 224.

Vulg.—Golondrina comun.

Hab.—State of Vera Cruz. Jalapa, No. 182 ♂, No. 182a ♀, No. 353 ♂, 489 ♂, August.

43. *Petrochelidon lunifrons*, (Say).*

Hirundo lunifrons, Say, in Long's Exp., II, p. 47.

Petrochelidon lunifrons, Sel. Cat. Am. B., p. 40.

Petrochelidon pyrrhonota, Sel. & Salv., Nomencl. Av. Neotr., p. 14; Salv. & Godm., Biol. Centr. Am. Aves, I, p. 226.

Vulg.—Golondrina vencejo.

Hab.—State of Puebla. Acatlan, No. 153 ♂.

[An adult male from Acatlan, Puebla (date not given, but said to be some time between January and May), is true *P. lunifrons*, and not *P. melanogaster* (Swains.).]

44. *Stelgidopteryx fulvipennis* (Selater).

Cotyle fulvipennis, Selater, P. Z. S., 1859, p. 364.

Stelgidopteryx fulripennis, Baird, Rev. Am. B., I, 1864, p. 316.

Stelgidopteryx serripennis, Salvin & Godman, Biol. Centr. Am. Zool. Av., I, 1883, p. 237.

Hab.—State of Vera Cruz. Jalapa, No. 490 ♀, August.

* After a very careful and impartial investigation of the matter, I find myself unable to coincide with the views of those authors who would identify positively the *Hirundo pyrrhonota* of Vieillot with the *H. lunifrons* of Say. It is impossible to reconcile certain discrepancies in Vieillot's description and those of the authorities upon which his name was based, with the characters of the present bird; and, even granting that *H. pyrrhonota* Vieill. may have been, or even probably was, this bird, there is no more occasion in this instance to "exchange a certainty for an uncertainty" than in other cases which have been objected to. The same applies with equal, but scarcely greater, force to *H. americana* Gmel. As to the identity of the South American with the North American bird, I have nothing to say, not having seen specimens of the former; but it would be by no means remarkable if they were the same species.—R. R.

FAM. CŒREBIDÆ.

45. *Diglossa baritula*, Wagl.

Diglossa baritula, Wagl., Isis, 1832, p. 281; Salv. & Godm., Biol. Centr. Am. Aves, I, p. 242.

Hab.—State of Puebla. S. Salvador el verde (Huejotringo) No. 20 ♂, September.

FAM. TANAGRIDÆ.

46. *Euphonia elegantissima* (Bonap.).

Pipra elegantissima, Bonap., P. Z. S., 1837, p. 112.

Euphonia elegantissima, Du Bus, Esq. Orn., t. 8; Salv. & Godm., Biol. Centr. Am. Aves, I, p. 256.

Vulg.—Mongita de S. Bartolo.

Hab.—State of Puebla. Chachapa, No. 345a ♀, February.—State of Vera Cruz. Jalapa, No. 369 ♂, August.

47. *Tanagra abbas*, Lichtenstein.

Tanagra abbas, Lichtenstein, Preiz-Verz. Mex. Vög., 1831, p. 2; Salvin & Godman, Biol. Centr. Am. Zool. Av., I, 1883, p. 278.

Hab.—State of Vera Cruz. Jalapa, No. 370 ♂, August.

48. *Piranga rubra* (Linn.).

Fringilla rubra, Linn., Syst. Nat., ed. 10, I, 1758, p. 181.

Piranga rubra, Vieill., Ois. Am., Sept., 1807, p. iv.

Pyrrhula astiva, Salv. & Godm., Biol. Centr. Am. Aves, I, p. 289.

Vulg.—Aguacatero.

Hab.—State of Puebla. Chietla, No. 55 ♂, 55a ♀, December; Huexotitla, No. 72a ♀, November.

49. *Piranga hepatica*, Swains.

Pyranga hepatica, Swains., Phil. Mag., new ser., I, p. 438; Salv. & Godm., Biol. Centr. Am. Aves, I, p. 291.

Vulg.—Cardinal.

Hab.—State of Puebla. Teziutlan, No. 134 ♂, No. 134a ♀, November.

50. *Piranga ludoviciana*, (Wils.).

Tanagra ludoviciana, Wils., Am. Orn., III, p. 27, t. 20, f. 1.

Pyranga ludoviciana, Bonap., P. Z. S., 1837, p. 116; Salv. & Godm., Biol. Centr. Am. Aves, I, p. 297.

Vulg.—Triguero.

Hab.—State of Puebla. Chietla, No. 73a ♀, December.

51. *Chlorospingus olivaceus* (Bonaparte).

Poospiza olivacea, Bonaparte, Comp., I, 1850, p. 473.

Chlorospingus olivaceus, Sclater, Tanagr. Cat. Specif., 1854, p. 6; Salvin & Godman, Biol. Centr. Am. Zool. Av., I, 1884, p. 315.

Hab.—State of Vera Cruz. Jalapa, No. 485 ♂, August.

52. *Buarremon brunneinucha* (Lafresnaye).

Embernagra brunneinucha, Lafresnaye, Rev. Zool., 1839, p. 97.

Buarremon brunneinucha, Scaler, P. Z. S., 1856, p. 85; Salv. & Godm., Biol. Centr. Am. Zool. Av., I, 1884, p. 319.

Hab.—State of Vera Cruz. La Banderilla (Jalapa), No. 430 ♂, September.

53. *Buarremon albinucha* (Lafr. & d'Orb.).

Embernagra albinucha, Lafr. & d'Orb., Rev. Zool., 1838, p. 165.

Buarremon albinucha, Bonap., Conspl., I, p. 484.

Buarremon albinucha, Salv. & Godm., Biol. Centr. Am. Aves, I, p. 321.

Vulg.—Calandria cerquera de cabeza blanca.

Hab.—State of Puebla. Tezintlan, No. 135a ♀, December.

54. *Saltator atriceps* (Less.).

Tanagra (Saltator) atriceps, Less., Cent. Zool., p. 208, t. 69.

Saltator atriceps, Gray, Gen. Birds, II, 1844, p. 366; Salv. & Godm., Biol. Centr. Am. Aves, I, p. 325.

Vulg.—Pico gordo, Quejoso.

Hab.—State of Oaxaca. Janhuitlan (?), No. 208 ♂.—State of Vera Cruz, Plano del Rio, No. 481 ♀, August.

55. *Saltator grandis* (Lichtenstein).

Tanagra grandis, Lichtenstein, Preis-Verz. Mex. Vög., 1831, p. 2.

Saltator grandis, Scaler, P. Z. S., 1856, p. 72; Salv. & Godm., Biol. Centr. Am. Zool. Av., I, 1884, p. 328.

Hab.—State of Vera Cruz. Jalapa, Nos. 392 ♂, 402 ♂, September.

Fam. FRINGILLIDÆ.

56. *Pheucticus chrysopeplus* (Vigors).

Coccothraustes chrysopeplus, Vigors, P. Z. S., 1832, p. 4.

Pheucticus chrysopeplus, Finsch., Abh. nat. Ver. z. Bremen, 1870, p. 339; Salv. & Godm., Biol. Centr. Am. Aves, I, p. 335.

Vulg.—Güillo pico gordo.

Hab.—State of Puebla. Chietla, No. 158a ♀, No. 218a ♀, December.

57. *Habia melanocephala*, (Swains.).

Guiraca melanocephala, Swains., Phil. Mag., 1827, I, p. 438.

Habia melanocephala, Stejneger, Ank, I, p. 367.

Hedymeles melanocephalus, Salv. & Godm., Biol. Centr. Am. Aves, I, p. 338.

Vulg.—Tiguerillo.

Hab.—State of Puebla. Atlixco, No. 110a ♀; Chietla, No. 71a ♀, December; S. Martin, Texmelucan, No. 71 ♂, September.

58. *Guiraca cærulea* (Linn.).

Loxia cærulea, Linn., Syst. Nat., I, p. 175.

Guiraca cærulea, Swains., Phil. Mag., new ser., I, p. 438; Salv. & Godm., Biol. Centr. Am. Aves, I, p. 344.

Vulg.—Azulejo maicero.

Hab.—State of Puebla. Huexotitla, No. 63 ♂, November, No. 63a ♀, December; Puebla, No. 79 ♂.

59. *Sporophila torqueola* (Bonap.).

Spermophila torqueola, Bonap., Conspr., I., p. 495.

Vulg.—Dominiquito del sur.

Hab.—State of Puebla. Huehuetlan, No. 31 ♂, November.

60. *Volatinia jacarina* (Linn.).

Tanagra jacarina, Linn., Syst. Nat., 6d. 12, I, p. 314

Folatinia jacarina, Cabanis, Mus. Hein., I, p. 147.

Vulg.—Dominiquito negro de las cañas.

Hab.—State of Puebla. Huehuetlan, No. 13 ♂, January.—State of Vera Cruz, Jalapa, No. 87 ♂.

61. *Euetheia pusilla* (Swainson).

Tiaris pusillus Swainson, Phil. Mag., new ser., 1827, p. 438.

Euetheia pusilla Cabanis, Mus. Hein., I, 1851, p. 146.

Vulg.—Dominiquito.

Hab.—State of Vera Cruz. Jalapa, No. 372 ♂, September.

62. *Passerina cyanea*, Linn.

Tanagra cyanea, Linn., Syst. Nat., ed. 12, I, p. 315.

Passerina cyanea, Vieillot, Nouv. Diet., XXV, 1817, p. 7.

Vulg.—Azulito.

Hab.—State of Puebla. Chietla, No. 30 ♂, December.

63. *Passerina versicolor*, Bonap.

Spiza versicolor, Bonap., P. Z. S., 1837, p. 120.

Passerina versicolor, Gray, Hand-list B., II, p. 97, No. 7438 (1870.)

Vulg.—Gorrion moradito.

Hab.—State of Puebla. Chietla, No. 3, ♂, 3a ♀, December; Azatlan, No. 7 ♂.

64. *Passerina ciris*, Linn.

Emberiza ciris, Linn., Syst. Nat., I, p. 179.

Passerina ciris, Vieillot, Nouv. Diet., XXV, 1817, p. 17.

Vulg.—Siete colores.

Hab.—State of Puebla. Chietla, No. 17 ♂, 18 ♂, December.

65. *Passerina leclancheri*, Lafr.

Passerina leclancheri, Lafr., Rev. Zool., 1840, p. 260.

Vulg.—Amarillito.

Hab.—State of Puebla. Chietla, No. 1 ♂, 1a ♂, 2 ♂, 2a ♀, December.

66. *Poocætes gramineus confinis*, Baird.

[*Poocætes gramineus*] variety *confinis*, Baird in B., C. & L., Birds of N. A., p. 448 (in text).

Vulg.—Gorrion triguero.

Hab.—State of Puebla. S. Baltazar, No. 36 ♂, 36a ♀, December.

67. *Amphispiza ferrarii perezi*, Ridgway, sp. nov.*Amphispiza ferrarii perezi*, Ridgway, Ank. iii, July, 1883, 332.*Vulg.*—Cerquero de collar.*Hab.*—State of Puebla. Chietla, No. 44 ♂, type, 44a ♀, December.

[SP. CHAR.—Similar to *A. quinquestriata* (Sel.*), but rump brown instead of slate-gray, the lesser wing-coverts cinnamon-rufous instead of slate-color, throat with a broad patch, instead of stripe, of white, black of the breast forming a broad collar, widest laterally, and the sides light drab instead of plumbeous.

Adult ♂ (type, No. 44, collection of Comision Geográfica Exploradora de Mexico, Chietla, Puebla, December, 1884): Head dark brownish slate, deepening into black on forehead, lores, and suborbital region, the occiput and cervix marked with broad but indistinct streaks of dark rusty. A supraloral spot, malar stripe, broad patch covering chin and throat, with entire abdomen and lower part of breast, pure white. White of throat bordered on each side by a submalar stripe of black, connecting with a broad black collar across the jugulum and upper breast, this collar about .50 of an inch wide in the middle portion, and .75 of an inch broad at its lateral extremities. Back, scapulars, and lesser wing-coverts, bright cinnamon-rufous, the first with a few indistinct black streaks in the middle portion, and all the dorsal feathers rather indistinctly bordered with light grayish brown; middle wing-coverts black, edged with fulvous and tipped with white, the latter forming a narrow but distinct band; greater coverts similar, but with broader fulvous edgings and much less distinct whitish tips; tertials similar to the greater coverts, but without any white at tips; primaries slate-dusky, edged for terminal half with pale gray. Rump and upper tail coverts light grayish brown, the more posterior feathers with paler borders. Tail dusky, the feathers with paler edges. Sides and flanks light grayish brown; anal region and lower tail-coverts similar but paler. Maxilla, black; mandible, whitish; iris, blackish; feet, horn brown. Wing, 2.70; tail, 3.30; the lateral feathers .55 shorter; culmen, .50, depth of bill at base, .30; tarsus, .85, middle toe, .60.

Adult ♀ (No. 44a, collection of the Comision Geográfica Exploradora de Mexico, Chietla, Puebla, December, 1884): Exactly like the male, as described above, except that the back is less rufescent and more distinctly streaked, and the rump more rufescent. Wing, 2.50; tail, 3.00.

It affords me much pleasure to dedicate this elegant species to Professor Fernando Ferrari Perez, naturalist of the Mexican Geographical Exploring Commission, and president of the State's University of Puebla de Zaragoza.—R. R.]

68. *Amphispiza mystacalis* (Hartl.).*Zonotrichia mystacalis*, Hartl., Rev. Zool., 1852, p. 3.*Vulg.*—Cerquero de patilla negra.*Hab.*—State of Puebla. Chietla, No. 43 ♂, 43a ♀, December.

**Zonotrichia quinquestriata*, SCL. & SALV., P. Z. S., May 28, 1868, p. 323. (Cf. RIDGW., Ibis, Oct., 1883, p. 400.)

69. *Melospiza lincolni* (Aud.).*Fringilla lincolni*, Aud. Orn. Biogr., II, p. 539, pl. 193.*Melospiza lincolni*, Baird, B. N. Am., p. 482.*Vulg.*—Zorzar rosado.*Hab.*—State of Puebla. Puebla, 19 ♂, December.70. *Melospiza fasciata mexicana*, Ridgw.*Melospiza melodia*, var *mexicana*, Ridgw. in B. B. & R., Hist. N. Am., B. II, 1874, p. 18.*Vulg.*—Cerquero aguador.*Hab.*—State of Puebla. Huexotitla, No. 61a ♀, November, No. 61 ♂, December.

[Two specimens, male and female, from Huexotitla, November, 1884, are essentially identical with the type, which is also from Puebla. They measure as follows:

	Wing.	Tail.	Culmen.	Tarsus.	Middle toe.
♂	2.80	2.70	.55	.90	.65
♀	2.70	2.60	.55	.95	.62

A good character of this race, overlooked in previous descriptions, consists in the rich umber-brown coloring of the tibial feathers.—R. R.]

71. *Spizella socialis*! (Wils.)*Fringilla socialis*, Wils. Am. Orn. II, p. 127, pl. 16, fig. 5.*Spizella socialis*, Bonap., Conspl., I, p. 480.*Vulg.*—Zorzar chiquito de cabeza café, Zorzar rayado.*Hab.*—State of Puebla. Puebla, No. 38 ♂, 38a ♀, December; Huexotitla, No. 42 ♂, 42a ♀, December; Teziutlan, No. 126 ♂, November.72. *Spizella atrigularis* (Caban.)*Spiuites atrigularis*, Caban., Mus. Hein. I, 1851, p. 133.*Spizella atrigularis*, Baird, B. N. Am. 1858, p. 476.*Vulg.*—Carbonero.*Hab.*—State of Puebla. Attixco, No. 8a ♀.

[A female, nearly adult, from Chietla, is in winter plumage. It has the black of the throat much mixed with gray, but this is perhaps a character of immaturity. This specimen, together with an adult male from Coahuila, Nuevo Leon (May, 1853, Lieut. Couch*), differs from all examples in a series of eleven specimens from California (San Diego), Lower California, Arizona, and New Mexico, in somewhat larger bill, the culmen measuring .45, gony .23, and width at base .22, against .45, .20, and .20, respectively, in the largest billed example of the north-western series. An adult male from Chapulco, Puebla (No. 54, 143, Aug. 3, 1868; F. Sumichrast), however, apparently has the bill no larger,

* Type of *Struthus atrimentalis* COUCH.

though it is difficult to decide on account of the defective condition of that member, which has the point broken and is otherwise injured.—R. R.]

73. Junco cinereus (Swains.).

Fringilla cinerea, Swains., Phil. Mag., 1827, I, p. 435.

Junco cinereus, Caban., Mus. Hein., p. 134.

Vulg.—Zorzar de lomo café.

Hab.—State of Puebla. Teziutlan, No. 121 ♂, November.

[A single specimen (♂ ad.) from Teziutlan, November, 1884, differs from examples from Orizaba and Mirador, in the State of Vera Cruz, in darker coloration, especially of the head, the entire auricular and suborbital regions being nearly as dark as the lores, in appreciable contrast with the gray of the neck. Wing, 2.90; tail, 2.65.—R. R.]

74. Ammodramus sandwichensis alaudinus (Bonap.).

Passerculus alaudinus, Bonap., Compt. Rend., XXXVII, p. 918; Not. Orn., p. 18.

Ammodramus sandwichensis alaudinus, Ridgw., Proc. U. S. Nat. Mus., 1885, p. 354.

Vulg.—Zorzar chiquito de eya amarilla.

Hab.—State of Puebla. Puebla, No. 34 ♂, 34a ♀, December.

75. Aimophila rufescens Swainson.

Aimophila rufescens Swainson, Two Cent., 1837, p. 315.

Vulg.—Triquero grande.

Hab.—State of Vera Cruz. Jalapa, No. 366 ♂, August; No. 357 ♂, September.

76. Aimophila melanotis Lawr.

Zonotrichia melanotis, Lawr., Ann. Lyc. N. Y., VIII, May, 1867, p. 473.

Haimophila melanotis, Lawr., Proc. Ac. Phil., Dec., 1868, p. 430.

Vulg.—Cerquero de tierra caliente.

Hab.—State of Puebla. Chietla, No. 60 ♂, 60a ♀, December

[Two specimens, male and female, from Chietla, Puebla (December, 1884), agree well with the type in all the characters which distinguish the species from *H. ruficauda*. The middle of the jugulum is even whiter than in the type, especially in the male, which has only the sides of the breast faintly ashy. The black stripes of the head are deep black throughout, except that there is a small grayish white spot at the end of the auriculars. The sexes are exactly alike in coloration. The measurements are as follows:

	Wing.	Tail.	Culmen.	Tarsus.	Mid. toe.
Type* (♂).....	2.75	3.30	.60	.95	.65
♂.....	2.80	3.40	.60	.90	.60
♀.....	2.70	3.40	.60	.95	.65

* 31827, Plains of Colima, June, 1863; J. Xantus.

Among the characters ascribed by Mr. Lawrence (Proc. Acad. Nat. Sci., Phil., Dec., 1868, p. 362), as distinguishing this species from *A. ruficauda*, Bonap., several do not hold good, among which may be mentioned the color of the tail, flanks, and lesser wing-coverts, which is essentially the same in the two species. The real diagnostic characters consist in the much more deeply black stripes of the head in the present species, its smaller bill, and absence of the very distinct gray clouding which forms an uninterrupted broad belt across the jugulum in *H. ruficauda*.—R. R.]

77. *Pipilo submaculatus* Ridgway, sp. nov.

Pipilo submaculatus, Ridgway, Auk, III, July, 1896, 332.

Vulg.—Chohuis.

Hab.—State of Puebla. Teziutlan, No. 285a ♀, type, November.

[SP. CHAR.—Resembling *P. maculatus*, Swains., but smaller, the back without white streaks, the white terminal spots of middle and greater wing-coverts and lateral rectrices much reduced in size, and the rufous of the sides of the breast marked with sagittate spots of black.

Adult ♂ (No. 285a, collection of the Comision Geográfico Exploradora de Mexico, Teziutlan, State of Puebla, November, 1884): Head, neck, and jugulum brownish black, decidedly lighter on the crown, occiput, and cervix, which incline to dark grayish brown, very indistinctly streaked with darker; sides of the jugulum indistinctly spotted or tinted with brown. Back and scapulars umber brown, tinged with rusty, the feathers with indistinct though broad medial streaks of dusky, some of the exterior scapulars with an indistinct whitish lateral streak. Rest of upper parts dull grayish brown, somewhat tinged with olive, especially on wings, the wing-coverts, remiges, and rectrices darker centrally; middle and greater wing-coverts with small terminal roundish spots of white, those on the greater coverts confined to the terminal portion of the outer web; two innermost tertials with a very indistinct edging of dull whitish. Tail dusky grayish brown, the edges of the feathers hardly perceptibly different; outer feather with an elliptical spot of dull white, about .85 of an inch long, and for about the terminal half occupying the full breadth of the web, but the terminal border of the web, next the shaft, dusky, very sharply and abruptly defined against the whitish; terminal portion of outer web of same feather edged with white; second rectrix with a large, somewhat ovate subterminal spot of dull white, the terminal margin being quite broadly, and very abruptly, dusky; outer web with a much smaller subterminal white spot; third rectrix without white on either web. Middle of breast and abdomen white; sides of breast, sides, flanks, crissum, and lower tail-coverts, rusty rufous, paler posteriorly and anteriorly (especially on sides of breast), marked with sagittate spots of black. Maxilla, brownish black; mandible, paler; feet, light horn-brown. Wing, 3.30; tail, 3.70; culmen, .60; tarsus, 1.15; middle toe, .75.

This very curious *Pipilo* is almost exactly intermediate in coloration between *P. maculatus* Swains. and *P. carmani*, Baird, but in dimensions agrees best with the former, *P. carmani* being much smaller than either. From *P. maculatus*, *P. submaculatus* differs strikingly in the following characters: (1) Absence of distinct streaks, either of black or white, on the interscapular region; (2) greatly reduced size of white markings on scapulars, wing-coverts, and tertials, which are smaller even than in *P. carmani*; (3) limitation of white spots on the tail to the two lateral feathers, and their greatly reduced size; (4) black spots in ferruginous of the sides of the breast. The last character is perhaps not to be relied on, since a tendency to the same feature in some specimens of the several race of *P. maculatus*, especially *P. oregonus*.—R. R.]

78. *Pipilo complexus*, Ridgway, sp. nov.

Pipilo complexus, Ridgway, Ank, III, July, 1886, 332.

Vulg.—Chohuis.

Hab.—State of Puebla: Teziutlan, No. 138 ♂ type, November.

Sp. CHAR.—Similar to *P. macronyx*, Swains., but decidedly smaller, the sides much paler rufous (almost buff), the throat with a white patch, and the occiput with a patch of rufous.

Adult ♂ (No. 138, collection of the Comision Geográfico Exploradora de Mexico, Teziutlan, State of Puebla, November, 1884): Head, neck, and breast deep black, relieved by a broken patch of rufous on the occiput (the feathers of which have tips and mesial streaks of black), an indistinct bar or broken oblong spot of white on each side of the forehead, and a white patch covering the medial portion of the chin and throat, broadest below. Rest of upper parts olive-green, the feathers dusky centrally; back and scapulars streaked with black, the latter with broader streaks (covering the greater portion of the outer web of each feather) of pale olive-yellow; middle and greater coverts broadly tipped with pale yellow, forming two distinct bands across the wing; outer webs of two innermost tertials broadly edged with dull yellowish white. Rump and upper tail-coverts plain dull olive-green. Tail dusky, the feathers edged with olive-green, the lateral feather with the terminal portion of the inner web dull yellowish white, about .90 of an inch in extent next the shaft; second rectrix with a similar but much smaller spot, and third rectrix with a very small spot, only about .25 of an inch long (measured along the shaft), and .15 of an inch wide. Abdomen and lower part of breast pure white; sides, flanks, and crissum pale ochraceous-rufous. Bill, blackish; iris, "reddish yellow"; tarsi, pale horn-brown; toes, darker. Wing, 3.60; tail, 3.90; culmen, .62; tarsus, 1.15; middle toe, .70.*

While *P. macronyx*, Swains., in its coloration forms a connecting link between the two sections of the genus represented by *P. maculatus*,

* An adult male of *P. macronyx* measures as follows: Wing, 3.80; tail, 4.60; culmen, .70; tarsus, 1.25; middle toe, .82.

Swains., and *P. chlorurus*, Towns., respectively, the present bird is in the same respect intermediate between the last and the first named, although nearest to *P. macronyx*, with which it agrees closely in general appearance, *P. chlorurus* being recalled simply by the white throat-patch and the rufous occipital spot, the latter representing an incipient condition of the rufous pileum of *P. chlorurus*.—R. R.]

79. *Pipilo fuscus*, Swains.

Pipilo fuscus, Swains., Phil Mag. 1827, I, p. 434.

Vulg.—Ilama comun.

Hab.—State of Puebla. Puebla, No. 74 ♂, 74a ♀, December.

[An adult male and an adult female from Puebla (December, 1884), agree with other specimens of true *P. fuscus* (including those from all portions of Mexico, whence I have seen examples of this species), in lacking any decided tinge of rufous on the pileum, in which respect, as well as in smaller size and darker general coloration, they differ from *P. fuscus mesoleucus* (Baird), of Arizona and New Mexico. National Museum specimens of true *P. fuscus* are from the following localities: Plains of Colima, June (1); Temascaltepec, Oaxaca (1); Guanajuato (1); "Mexico" (1); Guadalajara, Jalisco (2); Tepic, Jalisco (1); Guaymas, Sonora, April (1), and Sta. Catarina, Nuevo Leon, April (1). It may be remarked that the two latter, which represent extreme northern localities, are quite typical *P. fuscus*. A December specimen from Guaymas, however, agrees best in coloration with *mesoleucus*.

The two Puebla specimens measure as follows:

	Wing.	Tail.	Culmen.	Bill from nostril.	Tarsus.	Middle toe.
♂	3.55	3.90	.63	.40	.95	.70
♀	3.60	3.80	.62	.40	1.00	.72

R. R.]

20. *Chamæospiza torquata* (Du Bus).

Pipilo torquatus, Du Bus, Bull. Acad., Brux., XIV, 2, p. 105.

Chamæospiza torquata, Selat., P. Z. S., 1858, p. 304; 1859, p. 365.

Hab.—State of Puebla. Zoquitlan (Tehuacan), No. 192a ♀, May.

81. *Pyrgisoma rubricatum* (Caban.).

Atlapetes rubricatus, Caban., Mus. Hein., I, p. 140.

Pyrgisoma rubricatum, Selat. & Salv., P. Z. S., 1868, p. 326.

Vulg.—Zorzar cerquero.

Hab.—State of Puebla. Chietla, No. 47 ♂, 47a ♀, December; Acatlan, No. 78 ♂, 111 ♂.

82. *Atlapetes pileatus*, Wagl.

Atlapetes pileatus, Wagl., Isis, 1831, p. 526.

Hab.—State of Puebla. Teziutlan, No. 132a ♀, November.

83. *Chondestes grammacus strigatus* (Swains.).*Chondestes strigatus*, Swains., Phil. Mag., 1827, I, p. 435.*Chondestes grammica strigata*, Ridgw., Proc. U. S. Nat. Mus., 1880, p. 179, No. 204a.*Vulg.*—Gorrion pintado.*Hab.*—State of Puebla. Chietla, No. 40 ♂, 40a ♀, December.84. *Carpodacus mexicanus* (Müll.).*Fringilla mexicana*, Müll., Syst. Nat. Suppl., 1776, p. 165.*Carpodacus mexicanus*, Ridgw., Proc. Biol. Soc., Wash., II, 1884, p. 111.*Carpodacus haemorrhouus*, Sela', P. Z. S., 1856, p. 304; 1858, p. 303; 1859, p. 380 (ex *Fringilla haemorrhoa*, Wagl.).*Vulg.*—Gorrion de cabeza colorada.*Hab.*—State of Puebla. Barrio de Santiago (Puebla), No. 35 ♂, 35a ♀, December.85. *Spinus notatus* (Du Bus).*Carduelis notata*, Du Bus, Bull. Acad. Brux., XIV, 2, p. 106.*Spinus notatus*, Stejneger, Ank., 1884, p. 362.*Vulg.*—Verdin calandria.*Hab.*—State of Puebla. Teziutlan, No. 127 ♂, November.

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86. *Ostินops montezuma* (Less.).*Cassicus montezuma*, Less., Cent. Zool., pl. F.*Ostинops montezuma*, Sclat., P. Z. S., 1859, p. 380.*Vulg.*—Pepe de cola amarilla, Marinero.*Hab.*—State of Vera Cruz. Actopam, No. 234 ♂, 234a ♀, 235 ♂; Barra de Santa Ana, Nos. 455 ♂, 463 ♂, February; Paso de la Milpa, No. 378 ♂, February.87. *Cassiculus melanicterus* Bonap.*Icterus melanicterus*, Bonap., Journ. Ac. Philad., IV, p. 389.*Cassiculus melanicterous*, Bonap., Conspl., I., p. 428.*Vulg.*—Galantina.*Hab.*—State of Oaxaca. Yanhuitlan?, No. 178 ♂, 205 ♂, 483.88. *Cassicus holosericeus* (Lichtenstein).*Sturnus holosericeus*, Lichtenstein, Preis-Verz. Mex. Vög., 1831, p. 1.*Cucicus holoscricetus*, Salvin, Cat. Strickl. Coll., 1882, p. 263.*Cacicus prevosti*, Sel. and Sal., N. A. N., 1873, p. 36.*Hab.*—State of Vera Cruz. Jalapa, No. 383 ♂, August.89. *Icterus galbula* (Linn.).*Coracias galbula*, Linn., Syst. Nat., I, p. 108.*Icterus galbula*, Coues, Bull. Nutt. Club, 1880, p. 98.*Vulg.*—Calandria.*Hab.*—State of Puebla. Teziutlan, No. 118 ♂, November. State of Vera Cruz. Jalapa, No. 434 ♀, September.

90. *Icterus bullockii* (Swains.).

Xanthomus bullockii, Swains., Phil. Mag., 1827, I, p. 436.

Icterus bullockii, Bonap., List, 1838, p. 29.

Vulg.—Calandria ordinaria.

Hab.—State of Puebla. Huehuetlan, No. 117 ♂, January.

91. *Icterus spurius*, (Linn.).

Oriolus spurius, Linn., Syst. Nat. (ed. 12), I, p. 162.

Icterus spurius, Bonap., Synops., 1828, p. 51.

Vulg.—Calandria cajé.

Hab.—State of Puebla. Huexotitla, No. 66 ♂; Chietla, No. 66a ♀, December.

92. *Icterus wagleri*, Scl.

Icterus wagleri, Scl., P. Z. S., 1857, p. 7, 1859, p. 381.

Vulg.—Calandria negro del quioye.

Hab.—State of Puebla. Tecali (Huehuetlan) No. 68 ♂, January; Huehuetlan, No. 262 ♂, February.

93. *Icterus cucullatus*, Swains.

Icterus cucullatus, Swains., Phil. Mag., 1827, I, p. 436.

Vulg.—Calandria zapotera.

Hab.—State of Puebla. Chietla, No. 54 ♂, 54a ♀, 67 ♂, December; Atlixco, No. 106 ♂, 106a ♀.

94. *Icterus parisorum*, Bonap.

Icterus parisorum, Bonap., P. Z. S., 1837, p. 110.

Vulg.—Calandria tunera.

Hab.—State of Puebla. S. Bartolo, No. 64 ♂, 64a ♀, November.

95. *Icterus auduboni* Giraud.

Icterus auduboni Giraud, Sixteen Texas B., 1841, p. 3.

Vulg.—Calandria.

Hab.—State of Vera Cruz. Jalapa, Nos. 361 ♂, juv., August; 404 ♂ juv., September.

96. *Icterus gularis* (Wagl.).

Psarocolius gularis, Wagl., Isis, 1829, p. 754.

Icterus gularis, Bonap., Conspl., I, p. 435.

Vulg.—Calandria real.

Hab.—State of Vera Cruz. Actopam, No. 199 ♂.

97. *Icterus pustulatus* (Wagl.).

Psarocolius pustulatus, Wagl., Isis, 1829, p. 757.

Icterus pustulatus, Bonap., Conspl., I, p. 435.

Vulg.—Calandria fuego.

Hab.—State of Puebla. Chietla, No. 65 ♂, 65a ♀, December.—State of Oaxaca. Ianhuiatlan, No. 109 ♂, 115 ♂.

[Two specimens (adult male and female) from Chietla, Puebla (December, 1884) are identical in coloration with examples from Tepic and

Mazatlan, while two others (both males, but one of them immature) from Anhuitlan, in the State of Oaxaca, are very different in being clear Indian-yellow where the others are deep cadmium orange. The black throat-stripe also appears to be narrower. The white on the wings, however, is exactly as in the Chietla, Tepic, and Mazatlan specimens, so it is therefore probable, or at least possible, that the differences noted may be due to difference of age.—R. R.]

98. Molothrus aeneus (Wagl.).

Psarocolius aeneus, Wagl., Isis, 1829, p. 758.

Molothrus aeneus, Cab., Mus. Hein., I, p. 192.

Vulg.—Tordo gallito.

Hab.—State of Puebla. Izucar de Matamoros, No. 81 ♂; Chietla, No. 180 ♂, 191 ♂, December; Acatlan, No. 181 ♂.—State of Vera Cruz. Jalapa, No. 400 ♂, juv., August.

[The adult male of this species possesses a character which appears to have been overlooked by writers, in the possession of a very well-developed ruff, the feathers of the neck, especially on the lateral portions, being very much longer than those of the anterior portion of the body. This ruff, in the specimens belonging to the collection of the Commission, mounted immediately after shooting, strongly suggests that of *Paroncella pugnax*, but is not, of course, so conspicuous.—R. R.]

99. Molothrus ater (Boddaert).

Oriolus ater Boddaert, Tabl. Pl. Enl., 1783, p. 37.

Molothrus ater Gray, Hand list, II, 1870, p. 36.

Vulg.—Tordo negro.

Hab.—State of Puebla. Huexotitla, No. 327 ♂, November.

[An adult male from Huexotitla, Puebla (November, 1884), is decidedly referable to the northern or typical form, the measurements being as follows: Wing, 4.35; tail, 3.15; culmen, .75; tarsus, 1.10; middle toe, .75. The female accompanying it, however, is the *M. ater obscurus* (Gmel.), its measurements (in the above sequence) being only 3.90, 2.70, .65, 1, and .70.—R. R.]

100. Molothrus ater obscurus (Gmel.).

Sturnus obscurus, Gmel., Syst. Nat., I, 1788, p. 804.

Molothrus ater obscurus, Ridgw., Proc. U. S. Nat. Mus., III, 1880, p. 182.

Vulg.—Tordo negro chico.

Hab.—State of Puebla. Puebla, No. 53a ♀, November.

101. Agelaius phœniceus (Linn.).

Oriolus phœniceus, Linnaeus, Syst. Nat., I, 1766, p. 161.

Agelaius phœniceus, Swainson, F. B. A., II, 1831, p. 280.

Vulg.—Cañero, Tordo capitán, Coronel.

Hab.—State of Puebla. Chetla, Nos. 398 ♂, 427 ♂.

102. *Agelaius gubernator* (Wagl.).*Psarocolius gubernator*, Wagl., Isis, 1832, IV, p. 281.*Agelaius gubernator*, Bonap., Comp. and Geogr. List, 1838, p. 30.*Vulg.*—Tordo capitán.*Hab.*—State of Tlaxcala. Laguna del Rosario, No. 232 ♂, 245 ♂, January; Nativitas, No. 232a ♀, January.103. *Xanthocephalus xanthocephalus* (Bonap.).*Icterus xanthocephalus*, Bonap., Journ. Acad. Philad., II, p. 222.*Xanthocephalus xanthocephalus*, Jordan, Man. Vertebr., 4 ed., 1854, p. 92.*Vulg.*—Tordo de pecho amarillo.*Hab.*—State of Puebla. Chietla, No. 162 ♂, 175 ♂, December; Huehuetlan, No. 162a ♀, December, No. 236 ♂, January; San Martin Texmelucan, No. 146a ♀, May.—State of Tlaxcala. Laguna del Rosario, No. 146 ♂, 159a ♀, January, No. 159 ♂, October.104. *Sturnella magna mexicana* (Scalater).*Sturnella magna*, Scalater, Ibis, III, 1861, p. 179. **Sturnella magna* var. *mexicana*, B. B. & R., N. Am. B., II, 1874, p. 172.*Vulg.*—Chirlota.*Hab.*—State of Puebla. Llano de Chapuleo, No. 147 ♂, July; Chietla, No. 147a ♀, December.105. *Scolecophagus cyanocephalus* (Wagl.).*Psarocolius cyanocephalus*, Wagl., Isis, 1829, p. 758.*Scolecophagus cyanocephalus*, Caban., Mus. Hein., I, p. 195.*Vulg.*—Tordo de ojo amarillo.*Hab.*—State of Puebla. S. Baltazar, No. 148 ♂, November; State of Tlaxcala; Nativitas, No. 148a ♀, December.106. *Dives dives* (Bonaparte).*Launropsar dives*, Bonaparte, Cons., I, 1850, p. 425.*Dives sumichrasti*, Scalater, Ibis, 1884, p. 154.*Vulg.*—Tordo.*Hab.*—State of Vera Cruz. Plan del Rio, No. 482 ♂, juv., August.107. *Quiscalus macrourus* Swains.*Quiscalus macrourus*, Swains., An. in Menag., p. 299.*Vulg.*—Urraca, Zanate.*Hab.*—State of Puebla. Izucar de Matamoros, No. 212 ♂, 212a ♀, 213 ♂, 213a ♀, December; State of Vera Cruz; Plan del Rio, No. 363 ♀ juv.

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108. *Cyanocitta stelleri diademata* (Bonap.).*Cyanogarrulus diadematus*, Bonap., Cons., I., p. 377.*Vulg.*—Fraile, Verdugo, Quauhgallito.*Hab.*—State of Puebla. Hacienda de S. Pedro (Texmelucan), No. 197a ♀, September, No. 196 ♂, 196a ♀, 197 ♂, October.

109. *Xanthoura luxuosa* (Lesson).

Garrulus luxuosus, Lesson, Rev. Zool., 1839, p. 100.

Xanthoura luxuosa, Bonaparte, Conspl., I, 1850, p. 380.

Vulg.—Quexque azul.

Hab.—State of Vera Cruz: Jalapa, Nos. 469 ♀, August; 470 ♂, 473 ♀, September.

110. *Aphelocoma sieberii* (Wagl.).

Pica sieberii, Wagl., Syst. Av., 1827, p. 365.

Aphelocoma sieberi, Caban., Mus. Hein., I, p. 221.

Vulg.—Caxcax, Crajo azul.

Hab.—State of Puebla. Cerro de S. Pedro en el Istateihuatl (Texmelucan), No. 195 ♂, September; Hacienda de S. Pedro (Texmelucan), No. 237 ♂, October; S. Salvador el Verde (Huejotzingo), No. 195a ♀, September.

111. *Cyanocorax ornatus* (Less.).

Pica ornata, Less., Rev. Zool., 1839, p. 41.

Cyanocorax ornata, Gray, Gen. Birds, II, 1845, p. 307.

Vulg.—Quexquex.

Hab.—State of Vera Cruz. Jalapa, No. 243 ♂, No. 243a ♀.

[A male and female from Jalapa agree with other Mexican and also Guatemalan examples in having the blue cap bordered laterally with a distinct white line, broadest and most sharply defined posteriorly, of which there is no trace in Costa Rican specimens, recently separated by me as *C. cucullatus* (cf. Proc. U. S. Nat. Mus., viii. April 20, 1885, p. 23).—R. R.]

112. *Calocitta formosa* (Swains.).

Pica formosa, Swains., Phil. Mag., 1827, I, p. 437.

Calocitta formosa, Sel. & Salv., Ibis, 1859, p. 22.

Vulg.—Chismoso, Alguacil.

Hab.—State of Puebla. Chietla, No. 241 ♂, 241a ♀, 242 ♂, 242a ♀, 468, December.

113. *Psilorhinus morio* (Wagl.).

Corvus morio, Wagl., Isis, 1829, p. 751.

Psilorhinus morio, Gray, Gen. B., II, p. 308.

Vulg.—Pepe.

Hab.—State of Vera Cruz. Jalapa, No. 334 ♂, 334a ♀; Plan del Rio, No. 422 ♂, juv., August.

114. *Corvus corax sinuatus* (Wagl.).

Corvus sinuatus, Wagl., Isis, 1829, p. 748.

Corvus corax sinuatus, Ridgw., Proc. U. S. Nat. Mus., 1885, p. 355.

Vulg.—Cuervo, Cacalotl, Cacalote.

Hab.—State of Puebla. Puebla, No. 306 ♂. State of Vera Cruz. Jalapa, No. 462 ♂, August.

FAM. TYRANNIDÆ.

115. *Sayornis nigricans* (Swains.).*Tyraannula nigricans*, Swains., Phil. Mag., 1827, I, p., 367.*Sayornis nigricans*, Bonap., Comp. Rend., XXXVIII, p. 657.*Vulg.*—Papamoxea negro de rio.*Hab.*—State of Puebla. Rio de Huexotitla, No. 52 ♂, November.116. *Sayornis phœbe* (Lath.).*Muscicapa phœbe*, Lath., Ind. Orn., II, p. 489.*Sayornis phœbe*, Stejneger, Auk, 1885, p. 51.*Vulg.*—Papamosca.*Hab.*—State of Puebla. Teziutlan, No. 129 ♂, November.117. *Sayornis sayus* (Bonap.).*Muscicapa sayus*, Bonap., Am. Orn., I, p. 20, pl. 2, fig. 3.*Sayornis sayus*, Baird, B. N. Am., p. 185.*Vulg.*—Papamosca boyero.*Hab.*—State of Puebla. Puebla, No. 57 ♂, December; Chapulco, No. 57a ♀, December.118. *Myiozetetes texensis* (Giraud).*Muscicapa texensis*, Giraud, B. of Texas, text at pl. 1.*Myiozetetes texensis*, Sclat., P. Z. S., 1859, p. 56.*Vulg.*—Iusto juez.*Hab.*—State of Puebla. Chietla, No. 59 ♂, 59a ♀, December. State of Vera Cruz. Jalapa, Nos. 387 ♂, 403 ♀, 418, August.119. *Pitangus derbianus* (Kaup.).*Saurophagus derbianus*, Kaup. P. Z. S. 1851, p. 44.*Pitangus derbianus*, Scl. P. Z. S., 1856, p. 297, 1859, pp. 45, 56, 366.*Vulg.*—Portugués.*Hab.*—State of Puebla. Chietla, No. 185 ♂, 185a ♀, December, Acatlan, No. 179 ♂.120. *Pyrocephalus rubineus mexicanus* (Sclat.).*Pyrocephalus mexicanus*, Sclat., P. Z. S., 1859, pp. 45, 56, 366.*Pyrocephalus rubineus* var. *mexicanus*, Coues, 1st ed., p. 177.*Vulg.*—Cardenal, S. Gabrielito.*Hab.*—State of Puebla. S. Martin Texmelucan, No. 29 ♂, 29a ♀, November. State of Tlaxcala. Tlaxcala, No. 25 ♂, January. State of Vera Cruz. Jalapa, Nos. 351 ♂, 399 ♂, August, 489 ♂, September.121. *Empidonax fulvifrons rubicundus* (Caban. & Heine).*Empidonax rubicundus*, Caban. & Heine, Mus. Hein., II, p. 70.*Empidonax fulvifrons rubicundus*, Ridgw., Proc. Biol. S. Wash., II, p. 109.*Vulg.*—Papamosquita canelo.*Hab.*—State of Puebla. Huehuetlan, No. 22 ♂, January.

[An example from Huehuetlan State of Puebla (January, 1885), agrees very closely with specimen No. 32,914, U. S. National Museum

collection, which has already been referred to by the writer in a paper* published in the "Proceedings" of the Biological Society of Washington, as representing a small, richly colored southern race of the species. The assumed southern locality of the specimen, which was labeled simply "Mexique," is therefore probably correct. The measurements are as follows: Wing, 2.40; tail, 2.10; culmen, .35; tarsus, .57.—R. R.]

122. *Contopus borealis* (Swainson).

Tyrannus borealis Swainson, F. B. A., II, 1831, p. 141, pl. 35.
Contopus borealis Baird, B. N. Am., 1858, p. 188.

Vulg.—Mosquero.

Hab.—State of Vera Cruz. Jalapa, No. 488 ♀, September.

123. *Contopus pertinax*, Caban. et Heine.

Contopus pertinax, Caban. & Heine, Mus. Hein., II, p. 72.

Vulg.—Papamosca gris, Papamosca verdoso.

Hab.—State of Puebla. Chietla, No. 58 ♂, 58a ♀, December.—State of Vera Cruz. Actopam, No. 116 ♂; Jalapa, No. 350 ♂, August.

124. *Myiarchus cinerascens* (Lawr.).

Tyrannula cinerascens, Lawr., Ann. Lyc. N. Y., 1851, p. 109.
Myiarchus cinerascens, Sclater, Ibis, 1859, pp. 121, 440.

Vulg.—Abispero.

Hab.—State of Puebla. Huehuetlan (Tecali), No. 174a ♀, January.

125. *Tyrannus melancholicus couchii* (Baird).

Tyrannus couchii, Baird, B. N. A., 1858, p. 175.

Tyrannus melancholicus var. *couchii*, Cones, Check-list, 1st ed., Dec., 1873, p. 51.

Hab.—State of Vera Cruz. Jalapa, Nos. 407 ♂, 414 ♂, 492 ♂ juv., August.

126. *Tyrannus vociferans*, Swains.

Tyrannus vociferans, Swains., Quart. Journ. Sc., XX, p. 273, et Phil. Mag., I, 1827, p. 368.

Vulg.—Abejero.

Hab.—State of Puebla. Huexotitla, No. 163 ♂; Llano de S. Baltasar (Puebla), No. 163a ♀, November.

127. *Tyrannus crassirostris*, Swains.

Tyrannus crassirostris, Swains., Quart. Journ. Sc., XX, p. 278, et Phil. Mag., I, 1827, p. 368.

Vulg.—Abispero.

Hab.—State of Puebla. Chietla, No. 186 ♂, December.

128. *Milvulus forficatus* (Gmel.).

Muscicapa forficata, Gmel., S. N., I, p. 931.

Milvulus forficatus, Swains., Classif. B, II, 1837, p. 225.

Vulg.—Tijereta.

Hab.—State of Puebla. Huehuetlan, No. 77a ♀, November.

* Remarks on the Type-specimens of *Muscicapa fulvifrons*, Giraud, and *Mitrephorus fulvifrons*, Cones. < Proc. Biol. Soc. Washington, Vol. II, April 28, 1884, pp. 108-110.

FAM. COTINGIDÆ.

129. Tityra personata, Jard. & Selb.

Tityra personata, Jard. & Selb., Ill. Orn., I, pl. 24.

Vulg.—Viuda.

Hab.—State of Vera Cruz. Jalapa ?, No. 164a ♀.

130. Hadrostomus aglaiæ (Lafr.)

Pachyrhynchus aglaiæ, Lafr., Rev. Zool., 1839, p. 98.

Hadrostomus aglaiæ, Cab. et Heine, Mus. Hein., II, p. 85.

Vulg.—Degollado, Mosquero.

Hab.—State of Puebla. Rancho del Ahuehueto (Tecali), No. 49 ♂, March; No. 49a ♀, December.—State of Oaxaca. Yanhuitlan ?, No. 107 ♂.—State of Vera Cruz. Jalapa, Nos. 373 ♀, 388 ♀, 409 ♂, September.

FAM. DENDROCOLAPTIDÆ.

131. Sittasomus olivaceus, Maximilian.

Sittasomus olivaceus, Maximilian, Beitr. Nat. Bras., III, 1830, p. 1146.

Hab.—State of Vera Cruz. Jalapa, No. 367 ♂, September.

132. Dendrornis flavigaster (Swains.).

Xiphorhynchus flavigaster, Swains., Philos. Mag., I., 1827, p. 440.

Dendrornis flavigaster, Bonap., Conspl. Voluc. Anis., 1854, p. 11.

Vulg.—Saltapared de monte.

Hab.—State of Puebla. Chiefta, No. 169 ♂, 169 a ♀, December.

133. Picolaptes affinis (Lafr.).

Dendrocolaptes affinis, Lafr., Rev. Zool., 1839, p. 100.

Picolaptes affinis, Gray, Gen. B., I, 1847, p. 140.

Vulg.—Saltapared.

Hab.—State of Puebla. Hueytamaleo (Tezintlan) No. 133 ♂, November.—State of Vera Cruz. Jalapa, Nos. 376 ♂, 410 ♂, September.

FAM. FORMICARIIDÆ.

134. Thamnophilus doliatus (Linn.).

Lanius doliatus, Linn., Syst. Nat., ed. 12, I, 1766, p. 136.

Thamnophilus doliatus, Max., Beitr., III, p. 995.

Vulg.—Saltapared lutado.

Hab.—State of Puebla. Hueytamaleo (Teziutlan), No. 136 ♂, December.

State of Vera Cruz. Jalapa, No. 487 ♂ juv., August.

FAM. TROCHILIDÆ.

135. Sphenoproctus curvipennis (Licht.).

Trochilus curvipennis, Licht., Preis-Verz., Mex. Thier., 1830, No. 32.

Sphenoproctus curvipennis, Gould, Intr. Troch., 8 ed., 1861, p. 51; Elliot, Syn. Troch., p. 23.

Vulg.—Chupamirto real blanco.

Hab.—State of Vera Cruz. Jalapa, No. 83 ♂, 85 ♂, 86 ♂, 103 ♂.

136. *Campylopterus hemileucus* (Licht.).

Trochilus hemileucus, Licht., Preis-Verz., Mex. Thier., 1830, No. 33.

Campylopterus hemileucus, Cab. & Heine, Mus. Hein., Th. III, p. 13; Elliot, Clas. & Syn., Troch., p. 26.

Vulg.—Chupamirto pavito azul; Chupamirto real.

Hab.—State of Vera Cruz. Jalapa, No. 84 ♂, 89 ♂, 93 ♂, 94 ♂, 359 ♂, 365 ♂, September.

137. *Cæligena henrica* (Less. & Delattre).

Ornismya henrica, Less. & Delattre, Rev. Zool., 1839, p. 17.

Caligena henrica, Caban & Heine, Mus. Hein., Th. III, 1860, p. 15, note; Elliot, Classif. and Synops. Troch., 1878, p. 30.

Vulg.—Chupamirto de pecho color de rosa.

Hab.—State of Vera Cruz. Jalapa, No. 104a ♀.

138. *Petasophora thalassina* (Swains.).

Trochilus thalassina, Swains., Phil. Mag., 1827, p. 441.

Petasophora thalassina, Gould, P. Z. S., 1847, p. 8; Elliot, Clas. & Synops. Troch., p. 51.

Vulg.—Chupamirto de cola verde-mar.

Hab.—State of Puebla. Puebla, No. 319 ♂, 332 ♂, September.

139. *Eugenes fulgens* (Swains.).

Trochilus fulgens, Swains., Phil. Mag., I, 1827, p. 441.

Eugenes fulgens, Gould, Mon. Troch., II, pl. 59. Elliot, Clas. & Synops. Troch., 1878, p. 60.

Vulg.—Chupamirto verde montero.

Hab.—State of Puebla. Puebla, No. 33 ♂, No. 278 ♂, 284 ♂, 285 ♂, 286 ♂, 287 ♂, 288 ♂, 289 ♂, 290 ♂, 293 ♂, 294a ♀, September; No. 32 ♂, June. State of Vera Cruz. Jalapa, No. 96 ♂, 96a ♀, 97 ♂, 95 ♂, 105 ♂, 114 ♂, 122 ♂, 122a ♀, 349 ♂, August; 352 ♂, September.

140. *Trochilus colubris*, Linn.

Trochilus colubris, Linn., Syst. Nat., I, p. 120. Elliot, Clas. & Syn. Troch., p. 105.

Vulg.—Chupamirto rubi.

Hab.—State of Vera Cruz. Jalapa, No. 92 ♂, 92a ♀.

141. *Doricha eliza* (Less. & Delattre).

Trochilus eliza, Less. & Delattre, Rev. Zool., 1839, p. 20.

Doricha eliza, Gould, Intr. Troch., 8^o ed., 1861, p. 94. Elliot, Clas. & Synops. Troch., p. 125.

Vulg.—Chupamirto rubi de cola horquillada.

Hab.—State of Vera Cruz. Jalapa, No. 82 ♂, 82a ♀.

142. *Tilmatura duponti* (Less.).

Ornismya duponti, Less., Ois. Mouch. Suppl., p. 100, t. 1.

Tilmatura duponti, Caban. & Heine, Mus. Hein., III, 1860, p. 59. Elliot, Clas. & Synops. Troch., 1878, p. 128.

Vulg.—Chupamirto de cola de tijera y garganta azul.

Hab.—State of Vera Cruz. Jalapa, No. 98a ♀.

143. *Uranomitra cyanocephala* (Less.).

Ornismya cyanocephala, Less., Ois. Mouch. Suppl., 1831, p. 134, pl. 18.
Uranomitra cyanocephala, Reich., Aufz. der Colib., 1853, p. 10. Elliot, Clas. &
 Syn. Troch., p. 197.

Vulg.—Chupamirto blanco, chico, de cabeza azul.

Hab.—State of Vera Cruz. Jalapa, No. 88 ♂, 99 ♂, 100 ♂, 101 ♂.

144. *Amazilia mariae* (Bourc.).

Trochilus mariae, Bourc., Ann. Soc. Agr. Tr., Lyon, 1846, p. 319, t. ix.
Amazilia mariae, Elliot, Clas. & Synops. Troch., p. 222.

Vulg.—Chupamirto esmeralda.

Hab.—State of Vera Cruz. Jalapa, Nos. 90 ♂, 91 ♂, 102 ♂.

FAM. MICROPODIDÆ.

145. *Chætura vauzii* (Towns.).

Cypselus vauzii, Towns., Journ. Ac. Phil., VIII, p. 148.
Chatnra vauzii, De Kay, N. Y. Zool., II. 1844, p. 36.

Vulg.—Aguador, Media luna.

Hab.—State of Tlaxcala. Laguna del Rosario, No. 41 ♂, October.

[A specimen from Laguna del Rosario, State of Tlaxcala (October, 1884), agrees exactly with examples from California and Washington Territory, and is at once distinguishable from the common Mexican species (*C. affinis*, Lawr.).—R. R.]

FAM. CAPRIMULGIDÆ.

146. *Antrostomus vociferus* (Wils.).

Caprimulgus vociferus, Wils., Am. Orn., V, p. 71, pl. 41, f. 1, 2, 3.
Antrostomus vociferus, Bonap., Comp. List, p. 8.

Vulg.—Puxacua, Papavientos.

Hab.—State of Puebla. Tiacotepec (Tehuacan), No. 342 ♂, December; Jaguey de la Magdelena, No. 110 ♂.

147. *Nyctidromus albicollis* (Gmel.).

Caprimulgus albicollis, Gmel., Syst. Nat., I, p. 1030.
Nyctidromus albicollis, Burm., Th. Bras., II, 1856, p. 389.

Vulg.—Puxacua.

Hab.—State of Puebla. Mazatiopam (Tehuacan), No. 341 ♂, December.

FAM. PICIDÆ.

148. *Campephilus guatemalensis* (Hartlaub).

Picus guatemalensis, Hartlaub, Rev. Zool., 1844, p. 214.
Campephilus guatemalensis, Slater, Cat. Am. B., 1862, p. 331.

Vulg.—Carpintero.

Hab.—State of Vera Cruz. Santa Ana, No. 382 ♀, February; Paso de la Milpa, No. 384 ♂. February.

149. *Ceophlœus scapularis* (Vig.).*Picus scapularis*, Vig., Zool. Journ., IV, 1829, p. 354.*Ceophlœus scapularis*, Cabanis, Journ. f. Orn., 1862, p. 176.*Vulg.*—Pito real, Carpintero real.*Hab.*—State of Vera Cruz. Jalapa, No. 277 ♂.150. *Dryobates scalaris* (Wagl.).*Picus scalaris*, Wagl., Isis, 1829, p. 511.*Dryobates scalaris*, Ridgw., Proc. U. S. Nat. Mus., 1885, p. 355.*Vulg.*—Carpintero chilillito.*Hab.*—State of Puebla. Chietla, No. 144 ♂, December.

[An adult male from Chietla, State of Puebla, measures as follows: Wing, 2.80; tail, 2.30; culmen, .70. It has the nearly uniform red of the crown, like other specimens from Southeastern Mexico, including Yucatan, and the lower parts a deeper grayish brown than in Texas examples. The outer web of the lateral (second) rectrix, on each side, has but three bars of black.—R. R.]

151. *Dryobates villosus jardini* (Malh.).*Picus jardini*, Malh., R. Z., 1845, p. 374.*Dryobates jardini*, Cab. & Heine, Mus. Hein., IV, 1863, p. 69.*Vulg.*—Carpintero de pino.*Hab.*—State of Puebla. Tezintlan, No. 139 ♂, November.

[An adult male from Tezintlan, State of Puebla (November, 1884), measures as follows: Wing, 4.90; tail, 3.20; culmen, 1.18. The lower parts are light smoky brown, as are also the light stripes on the head and the broad stripe down the back; the three lateral tail feathers deeply stained with cinnamon-brown terminally.—R. R.]

152. *Sphyrapicus varius* (Linn.).*Picus varius*, Linn., Syst. Nat. (ed. 12), I, p. 176.*Sphyrapicus varius*, Baird, B. N. Am., p. 103.*Vulg.*—Carpintero amarillo.*Hab.*—State of Puebla. Huexotitla, No. 76a ♀, November.153. *Chlororhynchus oleagineus*, Reichenbach.*Chlororhynchus oleagineus*, Reichenbach, Handb. Spec. Orn., II, 1854, p. 356.*Vulg.*—Carpintero.*Hab.*—State of Vera Cruz. Jalapa, No. 498 ♀ juv., August.154. *Melanerpes formicivorus*, Swains.*Picus formicivorus*, Swains., Phil. Mag., I, 1827, p. 430.*Melanerpes formicivorus*, Bonap., P. Z. S., 1837, p. 109.*Vulg.*—Carpintero negro.

Hab.—State of Puebla. Chachapa, No. 154 ♂, 154a ♀, December. State of Vera Cruz. Jalapa, No. 479 ♀, 480 ♀ juv., September, 396 ♀ juv., 475 ♀ juv., 478 ♀ juv., 493 ♀ juv., 494 ♀. August.

155. *Centurus hypopolius* (Wagl.).

Pieus hypopolius, Wagl., Isis, 1829, p. 514.

Centurus hypopolius, Licht., Nomencl., 1854, p. 76. Ridgw., Proc. U. S. Nat. Mus., 1881, p. 113.

Vulg.—Carpintero de cabeza colorada.

Hab.—State of Puebla. Huehuetlan, No. 153 ♂, 153a ♀, November; No. 193a ♀, January; Izucar de Matamoros, No. 193 ♂, December.

156. *Centurus elegans* (Swains.).

Pieus elegans, Swains., Phil. Mag., I, 1827, p. 439.

Centurus elegans, Gray, Gen. B., II, 1849, p. 442. Ridgw., Proc. U. S. Nat. Mus., 1881, p. 114.

Vulg.—Carpintero de cabeza amarilla.

Hab.—State of Puebla. Izucar de Matamoros, No. 155 ♂, 155a ♀, 156 ♂, December.

157. *Colaptes mexicanus*, Swains.

Colaptes mexicanus, Swains., Phil. Mag., I, 1827, p. 440.

Vulg.—Carpintero de alas rojas.

Hab.—State of Puebla. S. Martin, Texmelucan, No. 198a ♀, 227 ♂, July; Totimehuacan, No. 198 ♂, November.

FAM. MOMOTIDÆ.

158. *Momotus cæruliceps* (Gould).

Prionites cæruliceps, Gould, P. Z. S., 1836, p. 18.

Momotus cæruliceps, Gray, Gen. B., I, 1847, p. 68.

Vulg.—Turco, Pájaro bobo.

Hab.—State of Vera Cruz. Jalapa, No. 231 ♂, 380 ♀, 417 ♀, September.

159. *Momotus mexicanus*, Swains.

Momotus mexicanus, Swains., Phil. Mag., I, 1827, p. 442.

Vulg.—Bobo, Turco.

Hab.—State of Puebla. Chietla, No. 160a ♀, 176 ♂, 176a ♀, 177 ♂, 177a ♀, 415, December.

FAM. ALCEDINIDÆ.

160. *Ceryle torquata* (Linn.).

Alcedo torquata, Linnaeus, Syst. Nat., ed. 12, I, p. 180.

Ceryle torquata, Bonaparte, P. Z. S., 1837, p. 108.

Vulg.—Martin pescador, Matraca.

Hab.—State of Vera Cruz. Paso de la Milpa, No. 465 ♂, February; Vega de Alatorre, No. 348 ♂, juv., August.

161. *Ceryle alcyon* (Linn.).

Alcedo alcyon, Linn., Syst. Nat., ed. 12, I, p. 180.

Ceryle alcyon, Boie, Isis, 1828, p. 316.

Vulg.—Martin pescador.

Hab.—State of Puebla. Epatlan, No. 206 ♂, December; Puebla, No. 206a ♀, September.

162. *Ceryle amazona* (Lath.).*Alcedo amazona*, Lath., Index Orn., I, 1790, p. 257.*Ceryle amazona*, Gray, Gen. B., I, 1847, p. 82.*Vulg.*—Martin pescador.*Hab.*—State of Vera Cruz. Jalapa, No. 187a ♀, 395 ♂, September.163. *Ceryle cabanisi* (Tschudi).*Alcedo cabanisi*, Tschudi, Faun. Per., p. 253.*Ceryle cabanisi*, Gray, G. B., I, p. 82.*Vulg.*—Martin pescador de rio.*Hab.*—State of Puebla. Chietla, No. 56♂, December; Izucar de Matamoros, No. 56a ♀, December.—State of Vera Cruz. Jalapa, No. 112♂, 112a ♀, 377♂, August.

FAM. TROGONIDÆ.

164. *Trogon mexicanus* Swains.*Trogon mexicanus*, Swains., Phil. Mag., I, 1827, p. 440.*Vulg.*—Cuauhtotola.*Hab.*—State of Puebla. Cerro de S. Mateo (Istateihuatl, Texmelucan), No. 201♂, March; No. 202♂, September.—State of Vera Cruz. Jalapa, No. 393♂, juv., September.165. *Trogon ambiguus* Gould.*Trogon ambiguus*, Gould, P. Z. S., 1835, p. 30.*Vulg.*—Cuauhtotola.*Hab.*—State of Puebla. Chietla, 172♂, 200♂, 200a ♀, December.

[An adult male from Chietla, State of Puebla (*tierra caliente*), December, 1884, differs from an adult male from Mazatlan, another from the Tres Marias, and a third from Boquillo, Nuevo Leon, in the following characters: The entire fore part of the head, including the crown back to behind the eyes, the postocular and auricular regions, malar region, chin, throat, and jugulum, are dull slaty black, with a decided glaneous or chalky cast; the metallic bronze collar across lower part of jugulum is less than half as broad as the distance from its upper edge to the mental apex; the white breast-collar is very narrow, being in its widest part only about .35 of an inch wide, whereas in northern and western examples it is .50 or more in breadth; the mottling of the wings is appreciably more delicate, and the color of the upper surface of the four middle rectrices is a very rich purplish copper, instead of bronzy copper-color. The measurements are: Wing, 5.30; tail, 6.80; culmen, .80; width of bill at rictus, .72.

It is altogether probable that the birds of this species from Northern and Western Mexico, and those from Puebla and other more southern States of the Republic, represent two well-defined geographical races; but in the great uncertainty which at present necessarily exists as to which form represents the *T. ambiguus* of Gould, and likewise as to

the relation which the latter bears to the *T. elegans* of the same author, we cannot at present do more than call attention to the facts noted above.

A young male from Chietla (Mexican Exploring Commission, No. 200, December, 1884), in nearly the same stage of plumage as No. 4339, from Boquillo, Nuevo Leon (April, 1853), yet shows indications of the characters distinguishing the adult, as noted above.

A young female from the same locality (No. 200a, same date) is essentially similar to No. 37355, U. S. Nat. Mus., from the Tres Marias, but has the middle tail-feathers less decidedly rufous. There are also other differences, which, in the absence of a larger series of specimens, it is unnecessary to note.—R. R.]

166. *Trogon citreolus* Gould.

Trogon citreolus, Gould, P. Z. S., 1835, p. 30.

Vulg.—Cuauhtotola amarilla.

Hab.—State of Oaxaca. Ianhuitlan (?), No. 239♂, 239a♀.

FAM. CUCULIDÆ.

167. *Crotophaga sulcirostris* Swains.

Crotophaga sulcirostris, Swains., Phil. Mag., I, 1827, p. 440.

Vulg.—Pijon, Garrapatero.

Hab.—State of Puebla. Izucar de Matamoros, No. 240♂, 240a♀, 317♂, 317a♀, December.—State of Vera Cruz. Plan del Rio, No. 347♀, 408♂, August.

168. *Geococcyx affinis* Hartl.

Geococcyx affinis, Hartl., Rev. Zool., 1844, p. 215.

Vulg.—Corre camino.

Hab.—State of Puebla. Huehuetlan, No. 210a♀, July.

169. *Piaya cayana* (Linn.).

Cuculus cayanus, Linn., Syst. Nat., ed. 12, I, p. 170.

Piaya cayana, Bonap., Cons., I, p. 110.

Vulg.—Chile ancho, Vaguero de huerta.

Hab.—State of Vera Cruz. Jalapa, No. 340♂, 397♀, September; 467♀, August.

170. *Piaya mexicana* (Swains.).

Cuculus mexicanus, Swains., Phil. Mag., I, 1827, p. 440.

Piaya mexicana, Sclat., P. Z. S., 1859, p. 388; 1860, p. 285.

Vulg.—Vaguero de huerta, Cuapaxtle.

Hab.—State of Puebla. Chietla, No. 244♂, 244a♀, December; No. 419, February, Acatlan, No. 247♂.

171. *Coccyzus americanus* (Linn.).

Cuculus americanus, Linn., Syst. Nat., I, 1758, p. 111.

Coccyzus americanus, Bonap., Obs. Wils., 1825, No. 47.

Vulg.—Abejarrueo.

Hab.—State of Pueblo. Paseo Nuevo (Puebla), No. 214a ♀, July.—State of Vera Cruz. Jalapa, No. 354 ♀, juv.; 391 ♀, September.

FAM. RAMPHASTIDÆ.

172. *Ramphastos carinatus* Swains.

Ramphastos carinatus, Swains., Zool. Ill., I, pl. 45.

Vulg.—Tucán de cuello amarillo, Pico de canoa.

Hab.—State of Vera Cruz. Santa Ana, No. 224♂, 346♂, 450♂, 426♂, January.

173. *Pteroglossus torquatus* (Gmel.).

Pteroglossus torquatus, Gmel., Syst. Nat., I, p. 354.

Pteroglossus torquatus, Wagl., Isis, 1829, p. 508.

Vulg.—Tucán de pecho rojo.

Hab.—State of Vera Cruz. Jalapá (?), No. 281♂.

174. *Aulacoramus prasinus* (Gould).

Pteroglossus prasinus, Gould, Mon. Ramph., ed. 1, pl. 29.

Aulacoramus prasinus, Bonap., Conspl., I., p. 96.

Vulg.—Tucán verde, Pico de canoa verde.

Hab.—State of Vera Cruz. Jalapa, No. 203a ♀, 412♂, January.

FAM. PSITTACIDÆ.

175. *Conurus aztec* Souancé.

Conurus aztec, Souancé, Rev. Zool., 1856, p. 154.

Vulg.—Perico.

Hab.—State of Vera Cruz. Plan del Rio, No. 474 ♀, August.

176. *Chrysotis autumnalis* (Linn.).

Psittacus autumnalis, Linn., Syst. Nat., I, 1758, p. 102.

Chrysotis autumnalis, Swainson, Clas. Birds, II, 1837, p. 301.

Vulg.—Loro, Cotorra.

Hab.—State of Vera Cruz. Plan del Rio, No. 336♂, 364♂, August.—State of Puebla. San José Acateno, No. 466♂, June.

177. *Chrysotis levaillantii* Gray.

Chrysotis levaillantii, Gray, List Sp. Psitt., 1859, p. 79.

Vulg.—Loro.

Hab.—State of Vera Cruz. Santa Ana, No. 446♂, January.

FAM. STRIGIDÆ.

178. *Strix pratincola* Bonap.

Strix pratincola, Bonap., Comp. & Geog. List, 1838, p. 7.

Vulg.—Lechuza de campanario.

Hab.—State of Puebla. Llano de Chapulco, No. 228♂, June; Forres de la Catedral (Puebla), No. 228a ♀, July.

[Two fine adults, a male from Chietla (June, 1884) and a female from Puebla (July, 1884), are decidedly referable to *practincola* proper, and not to *S. guatemalæ* (*Strix flammea* var. *guatemalæ*, Hist. N. Am. B., iii, 1874, p. 11). The male is pure white beneath, with a few blackish specks—mostly of rhomboid shape—along the sides; the female also white beneath, but much tinged with buff on breast and abdomen, which are rather thickly marked with rhomboid, deltoid, cuneate, and sagittate specks of dusky, the sides more ochraceous. The upper parts are colored quite as in average specimens of the northern bird. They measure as follows:

	Wing.	Tail.	Culmen.	Tarsus.
♂	12.60	5.50	.90	2.75
♀	13.25	6.00	1.00	2.85

R. R.]

179. *Asio accipitrinus* (Pall.).*Strix accipitrina*, Pall., Reise Russ. Reichs., I, 1771, p. 455.*Asio accipitrinus*, Newt., ed. Yarr., Brit. B., I, 1872, p. 163.*Vulg.*—Lechuza de llano.

Hab.—State of Puebla. Chiapulco, No. 222 ♂, November; Llano de S. Baltazar, No. 222a ♀, July.

180. *Syrnium virgatum* Cassin.*Syrnium virgatum*, Cassin, Proc. Ac. Phil., IV, 1848, p. 124.*Vulg.*—Mochuelo.*Hab.*—State of Vera Cruz. Jalapa, No. 331 ♂.181. *Ciccaba nigrolineata* Scaler.*Ciccaba nigrolineata*, Scaler, Trans. Zool. Soc., IV, p. 268, pl. 63, (1859).*Vulg.*—Lechuza hitada de cara negra.*Hab.*—State of Vera Cruz. Jalapa, No. 301 ♂.182. *Glaucidium phalænoïdes* (Daud.).*Strix phalænoïdes*, Daud., Traité, II, 1800, p. 206.*Glaucidium phalænoïdes*, Scaler & Salvin, Nomenc. Av. Neotr., 1873, p. 117.*Vulg.*—Tecolotillo or Tecolotito amarillo, rufous phase.

Hab.—State of Pueblo. S. Miguel Espejo, No. 261 ♂, February; Chietla, No. 260 ♂, 260a ♀, December; San José Acateno, No. 491 ♂, July; (?) No. 432, 433. State of Vera Cruz. Plan del Rio, No. 394 ♀, August.

[Three fine adults, all different in plumage, as follows:

No. 261, ♂ ad., San Miguel Espejo, Puebla, February, 1885: Rufous brown, inclining to russet, the sides more decidedly rufescent; legs like sides, but paler, especially on inner side. Tail dull brown, crossed by eight* bars of brownish white, tinged with rusty. Pileum without

* A ninth, terminal, bar is worn off, except partially on a single feather; the two anterior bars are mostly concealed by the upper coverts.

streaks or other markings, and scapulars and wing-coverts showing indistinct pale rufous spots instead of the usual large and very conspicuous white ones. Wing, 3.65; tail, 2.70.

No. 260 *a*, ♀ ad., Chietla, Puebla, Dec., 1884: Grayish brown above, the entire pileum streaked with pale brown, the nape with a large **V**-shaped mark of white (entirely absent in No. 261), with a black mark of similar form immediately beneath it; scapulars and lower wing-coverts with large roundish and oval spots of white. Tail rusty brown, crossed by about 10* broad bars of pale rufous, about the same width as the brown ones. The sides of the breast and stripes on flanks, &c., are grayish brown, much like the back. Outer side of legs mainly grayish brown, inner side mostly white. Wing, 3.75; tail, 2.70.

No. 260, ♂ ad., Chietla, December, 1884: In color of the upper parts (except tail), exactly intermediate between Nos. 261 and 260*a*; but with distinct white nuchal **V**-shaped band and white spots on scapulars and wing-coverts, as in the latter. Tail clear rufous, with about 10 narrow bars of brown, averaging less than half as wide as the rufous bands; markings of lower parts same color as the back (intermediate between cinnamon and umber). Legs white, spotted with brown on upper portion of outer side. Pileum indistinctly streaked with pale rusty brown, the streaks most distinct anteriorly and laterally. Wing, 3.90; tail, 2.75.—R. R.]

183. *Micrathene whitneyi* (Cooper).

Athene whitneyi, Coop., Pr. Cal. Acad., 1861, p. 118.

Micrathene whitneyi, Cones, Pr. Philad. Acad., 1866, p. 51.

Vulg.—Tecolotito.

Hab.—State of Puebla. S. Salvador el Verde (Huejotringo), No. 259 ♂, March.

[The single specimen, a beautiful adult male, is essentially identical with Arizona examples, as is also an adult (sex not determined from Guanajuato (No. 72,888, U. S. Nat. Mus.; Prof. A. Dugès). In *History of North American Birds*, vol. iii, p. 88, attention is called to differences between the type-specimen of this species and two specimens from Socorro Island, referred to the same species, these three examples being the only ones which had been obtained up to that time. Since then the National Museum collection of *M. whitneyi* has increased to 17 specimens, 2 from Southern California (2 from Lower California, 12 from Arizona, and 1 from Guanajuato, Mexico), so that now we have ample material for comparison; and a comparison of these shows that the two Socorro birds are very distinct, in the characters pointed out in the work

*These bars are less distinct towards the end of the tail, the terminal one being particularly indistinct; in the closed tail, they are sharply defined, and continuous; but when the tail is spread it is seen that each is interrupted at the shaft, where the brown of the alternating bars runs the full length of the feather.

†Probably as many more, in other collections, have been examined.

referred to, and undoubtedly represent a distinct species, or at least subspecies, which may be characterized as follows:

Micrathene graysoni Ridgw.—Socorro Elf Owl.*

Micrathene whitneyi GRAYSON & LAWR., Proc. Boston Soc., N. H., 1871, 300; Mem. Bost. Soc., ii, pt. iii, No. ii, 1874, 297.—B. B. & R., Hist. N. Am. B. iii, 1874, 87 (part).

SP. CHAR.—Similar to *M. whitneyi*, but much browner, the plumage without any superficial gray, and the light rusty tail-bands nearly as broad as the brown interspaces.

Adult ♂ (No. 49,678, Socorro I., W. Mexico; Col. A. J. Grayson): Above umber brown, the forehead and crown marked with rather large guttate spots of tawny; back, rump, and scapulars indistinctly spotted and barred with the same, but none of the markings well defined; a distinct but much broken collar of white across the nape; outer webs of exterior row of scapulars mostly white; and outer webs of the middle and greater wing-coverts with large oval terminal spots of the same. Wings much spotted and barred with light tawny (inclining to rusty on the lesser covert region), these markings on the remiges in the form of large semi-oval spots, arranged in transverse rows, or bands. Tail crossed by 6 broad bars† of pale tawny (inclining to white on inner web), these bars nearly as broad as the brown interspaces, but all interrupted along the middle line of each feather. Eyebrows white, also chin and sides of throat. Prevailing color of lower parts rusty brown or tawny, irregularly barred or vermiculated with dusky, but the prevalent rusty coloring much broken medially and posteriorly with white, in the form of ragged blotches; under tail-coverts with white prevailing. Wing, 4.25; tail, 2.20; culmen, .35; tarsus, .75.

Adult “♀” (No. 50,765, Socorro I.; Col. A. J. Grayson): Almost exactly like the male, as described above, but rusty coloring rather more pronounced, especially on throat and sides of the head. Wing, 4.05; tail, 1.90; culmen, .35; tarsus, .70.—R. R.]

FAM. FALCONIDÆ.

184. *Circus hudsonius* (Linn.).

Falco hudsonius, Linn., Syst. Nat., ed. 12, I, p. 128.

Circus hudsonius, Vieill., Ois. Am., Sept., I, 1807, p. 36, pl. ix.

Vulg.—Gavilan tonto aplomado, Gav. tonto café.

Hab.—State of Puebla. Puebla, No. 335 ♂; Llano de Chapuleo, No. 226 ♂, November, 226a ♀, December.

185. *Asturina plagiata* Schlegel.

Asturina plagiata, Schlegel, Mus. Pays-Bas, Asturinæ, 1862, p. 1.

Vulg.—Halcon pinto de cola larga, Gavilan.

* *Micrathene graysoni* RIDGW. Auk, iii, July, 1886, 333.

† The first and last bars are narrowest, one being terminal, the other concealed by the upper coverts.

Hab.—State of Vera Cruz. Jalapa, No. 282a ♀; Plan del Rio, No. 448 ♀, ad., August.

186. *Rupornis magnirostris griseocauda* Ridgway.

Butco (Rupornis) magnirostris c. var. *griseocauda*, Ridgway, Proc. Boston Soc. Nat. Hist., May 21, 1873, p. 89.

Vulg.—Halcon pollero.

Hab.—State of Vera Cruz. Jalapa, No. 307 ♂.

187. *Buteo borealis calurus* (Cassin).

Buteo calurus, Cassin, Proc. Ac. Philad., 1855, p. 281.

Buteo borealis var. *calurus*, Ridgway in Coues' Check list, 1873, No. 351a.

Vulg.—Aguilucho pardo, Gavilan de parvada.

Hab.—State of Vera Cruz. Jalapa, No. 330 ♂, No. 315 ♂.

188. *Buteo abbreviatus* (Cabanis).

Buteo abbreviatus, Cabanis in Shomb. Reis. Guian., III, 1848, p. 739.

Vulg.—Aguilucho negro.

Hab.—State of Puebla. Chietla, No. 291b ♂, December.

189. *Buteo albicaudatus* (Vieill.).

Buteo albicaudatus, Vieill., Nouv. Dict., IV, 1816, p. 477.

Vulg.—Gavilan negro.

Hab.—State of Vera Cruz. Jalapa, No. 329 ♂.

190. *Buteo pensylvanicus* (Wilson.)

Falco pensylvanicus, Wilson. Am. Orn., VI, 1812, p. 92, pl. 54, fig. 1.

Buteo pensylvanicus, Bonap., Osserv. Cuv. R. A., p. 55.

Vulg.—Halcon pinto.

Hab.—State of Vera Cruz. Jalapa, No. 282b ♂.

191. *Urubitinga anthracina* (Nitzsch).

Falco anthracinus, Nitrsh., Ptery., 1840, p. 83.

Urubitinga anthracina, Lafr., Rev. Zool., 1848, p. 241.

Vulg.—Aguilucho negro.

Hab.—State of Puebla. Atzala (Chietla), No. 291a, December. State of Vera Cruz. Jalapa, No. 343 ♂.

192. *Spizaetus ornatus* (Dand.).

Falco ornatus, Dand., Traité, II, p. 77.

Spizaetus ornatus, Vieill., Nouv. Dict., XXXII, 1819, p. 60.

Vulg.—Serpentario, Juan de á pié.

Hab.—State of Vera Cruz. Actopam, No. 321 ♂; Barra de Santa Ana, No. 440 ♀, January.

193. *Spizastur melanoleucus* (Vicillot).

Buteo melanoleucus, Vieillot, Nouv. Dict., IV, 1816, p. 482.

Spizastur melanoleucus, Sharpe, Cat. Brit. Mus., I, 1874, p. 258.

Vulg.—Halcon pescador.

Hab.—State of Vera Cruz. Jalapa, Nos. 314 ♂, 460, ♀ ad., August.

194. *Accipiter velox* (Wils.).

Falco velox, Wils., Am. Orn., pl. xlv, fig. 1, 1808.

Accipiter velox, Vigors in Beech. Voy., Zoöl., p. 15.

Vulg. — Halcon de cola larga.

Hab. — State of Puebla. Tecali, No. 238a ♀.

195. *Falco columbarius* Linn.

Falco columbarius, Linn., Syst. Nat., I, 1758, p. 90.

Vulg. — Halcon de cola corta.

Hab. — State of Puebla. Puebla, No. 339 ♂; Chietla, No. 238a ♀, December.

196. *Falco sparverius* (Linn.).

Falco sparverius, Linn., Syst. Nat., I, 1758, p. 90.

Vulg. — Cernícalo, Lilé.

Hab. — State of Puebla. Chietla, No. 204 ♂, 207 ♂, December; Huexotitla, No. 207a ♀; Puebla, No. 204a ♀, November. — State of Vera Cruz. Jalapa, No. 358, ♀ ad., October.

197. *Ictinia plumbea* (Gmelin).

Falco plumbeus, Gmelin, Syst. Nat., I, 1788, p. 283.

Ictinia plumbea, Vieillot, Nouv. Dict., XVI, 1817, p. 76.

Vulg. — Gavilan.

Hab. — State of Vera Cruz. Paso de la Milpa, No. 459, ♀ ad., February.

198. *Herpetotheres cachinnans* (Linn.).

Falco cachinnans, Linn., Syst. Nat., I, 1758, p. 90.

Herpetotheres cachinnans, Vieill., Nouv. Dict., XVIII, 1817, p. 317.

Vulg. — Vaguero de monte.

Hab. — State of Puebla. Chietla, No. 225 ♂, December, No. 456. — State of Vera Cruz. Santa Ana, No. 423 ♀, February, 424 ♀, March.

199. *Polyborus cheriway* (Jacq.).

Falco cheriway, Jacq., Beyt., 1784, p. 17, pl. 4.

Polyborus cheriway, Cabanis in Schomb., Guiana, III, p. 741.

Vulg. — Quebranta huesos.

Hab. — State of Puebla. Llano de S. Baltazar, No. 280 ♂, December, No. 280a ♀, November.

FAM. CATHARTIDÆ.

200. *Catharista atrata* (Bartr.).

Vultur atratus, Bartr., Trav., 1792, p. 289.

Catharista atrata, Gray, Hand-list, I, 1869, p. 3, No. 16.

Vulg. — Zopilote.

Hab. — State of Vera Cruz. Jalapa, No. 311 ♂, September.

201. *Gypagus papa* (Linn.).*Vultur papa*, Linn., Syst. Nat., I, 1758, p. 86.*Gypagus papa*, Vieillot, Nouv. Dict., XXXVI, 1819, p. 456.*Vulg.*—Zopilote real.*Hab.*—State of Vera Cruz. Ticaro, No. 346 ♂.

FAM. FREGATIDÆ.

202. *Fregata aquila* (Linn.).*Pelecanus aquilus*, Linnaeus, Syst. Nat., I, 1758, p. 133.*Fregata aquila*, Reichenbach, Syst. Av., 1852, p. vi.*Vulg.*—Babihorcado.*Hab.*—State of Vera Cruz. La Mancha, Nos. 438 ♀, ad., 439 ♀, ad., January.

FAM. PELECANIDÆ.

203. *Pelecanus fuscus* Linn.*Pelecanus fuscus*, Linnaeus, Syst. Nat., I, 1766, p. 215.*Vulg.*—Pelicano alcartáz.*Hab.*—State of Vera Cruz. Santa Ana, No. 436 ♀, juv., January.

FAM. PHALACROCORACIDÆ.

204. *Phalacrocorax mexicanus* (Brandt).*Carbo mexicanus*, Brandt, Bull. Sc. Ac. S. Petersb., III, 1838, p. 55.*Phalacrocorax mexicanus*, Selater & Salvin, Nom. Av. Neotr., 1873, p. 124.*Vulg.*—Sargento.*Hab.*—State of Vera Cruz. Santa Ana, No. 428 ♀, juv., February.

FAM. ARDEIDÆ.

205. *Ardea egretta* Gmelin.*Ardea egretta*, Gmelin, Syst. Nat., I, 1788, p. 620.*Vulg.*—Garza blanca grande.*Hab.*—State of Vera Cruz. Jalapa, Nos. 299a ♀, 442 ♂, September, 443 ♀, 444 ♂, August.206. *Ardea candidissima* Gmelin.*Ardea candidissima*, Gmelin, Syst. Nat., I, 1788, p. 633.*Vulg.*—Garza blanca chica.*Hab.*—State of Tlaxcala. Laguna del Rosario, No. 251 ♂, 251a ♀, January.207. *Ardea tricolor ruficollis* (Gosse).*Egretta ruficollis*, Gosse, B. Jam., 1847, p. 338.*Ardea tricolor ruficollis*, Ridgw., Proc. U. S. Nat. Mus., 1885, p. 355.*Vulg.*—Garza azul.*Hab.*—State of Puebla. S. Baltazar, No. 300 ♂.

208. *Ardea cærulea* Linn.

Ardea cærulea, Linn., Syst. Nat., I, 1758, p. 143.

Vulg.—Garza azul.

Hab.—State of Puebla. Laguna de Epatlan, No. 250♂, 250a♀, December.—State of Tlaxcala. Laguna del Rosario, No. 304♂, January.—State of Vera Cruz. Plan del Rio, No. 445♀, juv.. August; Jalapa, No. 452♀, juv., September.

209. *Ardea virescens* Linn.

Ardea virescens, Linn., Syst. Nat., I, 1758, p. 144.

Vulg.—Martinete cangrejero.

Hab.—State of Puebla. Acatlan, No. 253♀.—State of Tlaxcala. Laguna del Rosario, No. 253a♀, September.—State of Vera Cruz. Plan del Rio, Nos. 385♀, 411♂, August; Jalapa, No. 425♀, August.

210. *Botaurus lentiginosus* (Montague).

Ardea lentiginosa, Montague, Orn. Dict., Suppl., 1813.

Botaurus lentiginosus, Stephens, Shaw's Gen. Zool., XI, 1819, p. 596.

Vulg.—Pedréte, Perro, Pedréte amarillo.

Hab.—State of Tlaxcala. Laguna del Rosario, No. 279♂, 279a♀, 302♂, January.

211. *Botaurus exilis* (Gmelin).

Ardea exilis, Gmelin, Syst. Nat., I, 1788, p. 645.

Botaurus exilis, Reichenow, I. f. O., 1877, p. 244.

Vulg.—Ardeola, Pescadora.

Hab.—State of Puebla. Laguna de S. Baltazar (Puebla), No. 229♂, September; Laguna de San Felipe (Izucar de Matamoros), No. 416♂ ad., March.

212. *Tigrisoma cabanisi* Heine.

Tigrisoma cabanisi, Heine, Jour. für Ornith., 1859, p. 407.

Vulg.—Garza pinta.

Hab.—State of Vera Cruz. Vega de Alatorre, No. 441♂ ad., July.

213. *Nycticorax nycticorax nævius* (Bodd.).

Ardea næria, Boddaert, Tabl. Pl. Enl., 1783, p. 56.

Nycticorax nycticorax nævius, Zeledon, Proc. U. S. Nat. Mus., VIII, 1885, p. 113.

Vulg.—Iuanite pinto elote.

Hab.—State of Puebla. Chantla (Texmelucan), No. 303♂, August.—State of Vera Cruz. Jalapa, No. 323♂, December.

214. *Nycticorax violaceus* (Linn.).

Ardea violacea, Linn., Syst. Nat., I, 1758, p. 143.

Nycticorax violaceus, Vigors, Zool. Journ., III, 1827, p. 446.

Vulg.—Pedrete de márcara.

Hab.—State of Tlaxcala. Laguna del Rosario, No. 305♂, 324♂, October.—State of Vera Cruz. Santa Ana, No. 451♀ juv., January.

FAM. COCHLEARIDÆ.

215. *Cochlearius zeledoni* (Ridgway).

Cancroma zeledoni, Ridgway, Proc. U. S. Nat. Mus., VIII, 1885, p. 93.

Cochlearius zeledoni, Stejneger, Stand. Nat. Hist., IV, 1885, p. 179.

Vulg.—Yankee.

Hab.—State of Vera Cruz. Paso de la Milpa, Nos. 420 ♂, 421 ♂, February.

FAM. CICONIIDÆ.

216. *Tantalus loculator* Linn.

Tantalus loculator, Linn., Syst. Nat., I, 1758, p. 140.

Vulg.—Tagarote, Galambas, Garzon.

Hab.—State of Vera Cruz. Jalapa, No. 296 ♂; Vega de Alatorre, No. 458 ♂ juv., August.

FAM. PLATALEIDÆ.

217. *Guara alba* (Linn.).

Scolopax alba, Linn., Syst. Nat., I, 1758, p. 145.

Guara alba, Stejneger, Stand. Nat. Hist., IV, 1885, p. 9.

Vulg.—Ibis blaneo.

Hab.—State of Vera Cruz. Actopam, No. 325 ♂; Jalapa, No. 461 ♂ ad., August.

218. *Plegadis guarauna* (Linn.).

Scolopax guarauna, Linn., Syst. Nat., ed. 12, I, p. 242.

Plegadis guarauna, Ridgw., Nom. N. Am. B., 1881, No. 504.

Vulg.—Chupa tierra, Atotola.

Hab.—State of Puebla. Laguna de Epatlan, No. 271a ♀, December.—State of Tlaxcala. Laguna del Rosario, No. 271 ♂, 272 ♂, 272a ♀, January.

FAM. ANATIDÆ.

219. *Anser albifrons gambeli* (Hartlaub).

Anser Gambeli, Hartlaub, R. M. Z., 1852, p. 7.

Anser albifrons Gambeli, Ridgw., Proc. U. S. Nat. Mus., 1880, p. 203.

Vulg.—Ansar salvage.

Hab.—State of Puebla. S. Mareos, No. 292 ♂, March.

220. *Anas diazi* Ridgway, sp. nov.

Anas diazi, Ridgway, Auk., III, July, 1886, p. 332.

Vulg.—Pato triguero.

Hab.—State of Puebla. S. Ysidro, No. 215a ♀ type, March.—State of Tlaxcala. Laguna del Rosario, No. 215 ♂ type, October.

[SP. CHAR.—Most resembling *Anas fulrigula*, nobis, but last row of wing-coverts with a distinct subterminal band of white, and the sec-

ondaries with a broad terminal bar of the same; general plumage much less fulvous; cheeks streaked with dusky, and lower basal angle of the maxilla destitute of any black spot.

Adult ♂ (type, No. 215, collection of the Comision Geografico Exploradora de Mexico, Laguna del Rosario, Tlaxcala, Mexico, October, 1884): Pileum nearly uniform dusky brown, the feathers narrowly edged, however, with dull buff, especially on forehead and sides of crown, and with glossy black shaft-streaks; this dusky color of the pileum continued as a narrow, well defined, lighter brown stripe down the middle of the cervix. Rest of head and neck light dull buff, the anterior portion of the lores (extending back nearly half an inch from the base of the bill), the chin, malar region, and entire throat, entirely immaculate; other portions narrowly streaked with dusky, these streaks sparser and smaller in a well-defined superciliary stripe and in a stripe immediately beneath a very distinct dusky post-ocular stripe, the latter being continued in front of the eye as a broader stripe along the upper border of the lores. Prevailing color of the rest of the plumage dark sooty brown, but this broken by distinct buff borders or edgings to all the feathers, including the lesser and middle wing-coverts, and tertials. Greater wing-coverts brownish gray, broadly tipped with deep black, and crossed by a narrower subterminal band of white; secondaries metallic bluish green, with a distinct terminal band of pure white, and a broader subterminal one of deep black. Primaries and their coverts slaty brown. Rectrices dusky brown, edged with buff, each marked with a longitudinal stripe of deeper buff on the outer web and an obliquely transverse bar of the same on the inner web. Bill olive-yellow, darker on culmen, the nail and basal portion of culmen blackish brown; iris dark brown; legs and feet deep orange.* Wing, 10.00; tail, 4.00; culmen, 2.05; width of bill near end, .90, at base, .80; tarsus, 1.60; middle toe, 1.95.

Immature ♀ (collection of the Comision Geografico Exploradora de Mexico, San Ysidro, Puebla, March, 1884): Very similar to the adult male, but pileum more distinctly streaked, cervix also streaked, and dusky streaks or stripes on lower parts narrower, the ochraceous prevailing on the under surface; white band across greater wing-coverts much obscured by grayish mottling, the black terminal band much less intensely black. Wing, 8.90; tail, 3.80 (much worn at tip); culmen, 1.85; width of bill near end, .75; at base, .68.

This fine new species is respectfully dedicated to Professor Augustin Diaz, C. E., director of the Geographical Exploring Commission of Mexico, under whose intelligent direction the exceedingly beautiful collection, of which the type specimens form part, was formed.

Anas diazi is probably the same species as that which Col. A. J. Grayson identified as *Anas obscura*, Gm., and which is mentioned by

* Colors as represented by the taxidermist, and believed to correctly represent those of the living or freshly killed specimen.

him in Mr. Lawrence's Birds of Western and Northwestern Mexico* (page 314), as follows: "I shot many of this species near Tepic, but have not seen one in the vicinity of Mazatlan. They doubtless breed in the locality of Tepic, as I found them there in the month of June in pairs."

The discovery of this new duck increases the number of North American species of the restricted genus *Anas* to five, and of those peculiar to Mexico (so far as known) to two. The five species may be very readily distinguished by the following characters:

*a*¹. Smaller wing-coverts uniform grayish-brown or brownish slate; tertials without light edgings; sexes very different in plumage.

1. *A. boschas*, Linn. Wing with two distinct white bands.

*a*². Smaller wing-coverts distinctly bordered with buff or ochraceous, and tertials edged with the same. Sexes alike in plumage.

*b*¹. Wing without any white bands.

2. *A. obscura*, Gmel. Malar region, chin, and entire throat distinctly streaked with dusky; general plumage with dusky largely prevailing. Lower basal angle of the bill without black spot. *Hab.*—Eastern North America, breeding from northern border of the United States to Hudson's Bay region.

3. *A. fulvigula*, Ridgw.† Malar region, chin, and entire throat immaculate buff; general plumage with ochraceous prevailing. Lower basal angle of the bill with a black spot. *Hab.*—Florida, Kansas.

*b*². Wing with one or more distinct white bands.

4. *A. diazi*, Ridgw. Wing with two white bands; wing more than 9 inches. Malar region, chin, and throat immaculate buff; general plumage with dusky prevailing on upper parts, the lower surface with dusky and ochraceous in nearly equal amount. Lower basal angle of bill without black spot. *Hab.*—Southern Mexico. (Tlaxcala and Puebla; Tepic?).

5. *A. aberti*, Ridgw.‡ Wing with one white band, this a very broad one across tips of secondaries. Wing less than 9 inches. Chin and upper part of throat immaculate buff. General plumage a mixture of dusky and ochraceous in nearly equal amount. *Hab.*—Western Mexico. (Mazatlan.)—

R. R.]

221. *Anas strepera* Linn.

Anas strepera, Linn., Syst. Nat., I, 1858, p. 125.

Vulg.—Pato pardo de grupo.

Hab.—State of Puebla. Tehuacan, No. 333 ♂. State of Tlaxcala. Laguna del Rosario, No. 220 ♂, January.—State of Vera Cruz. Barra de Santa Ana, No. 464 ♂, January.

222. *Anas carolinensis* Gmelin.

Anas carolinensis, Gmelin, Syst. Nat., I, 1788, p. 533.

Vulg.—Cerceta de listo verde.

Hab.—State of Tlaxcala. Laguna del Rosario, No. 217 ♂, 217a ♀, 266 ♂, January.

* The Birds of Western and Northwestern Mexico, based upon collections made by Col. A. J. Grayson, Capt. J. Xantus and Ferd. Bischoff, now in the Museum of the Smithsonian Institution, at Washington, D. C. By Geo. N. Lawrence. < Memoirs Boston Soc. Nat. Hist., Vol. II, part iii, number ii, 1874, pp. 265-319. (316 species, with copious field-notes.)

† Cf. Water Birds of North America, Vol. I., 1884, p. 503.

‡ Cf. Proc. U. S. Nat. Mus., Vol. I, 1878, p. 350.

223. *Anas discors* Linn.

Anas discors, Linn., Syst. Nat., ed. 12, I, p. 205.

Vulg.—Cerceta comun.

Hab.—State of Puebla. Laguna de Chapulco, No. 221♂, 221a♀, 257a♀, October.

224. *Anas cyanoptera* (Vieillot).

Anas cyanoptera, Vieillot, Nouv. Dict., V, 1816, p. 104.

Vulg.—Cerceta café.

Hab.—State of Puebla. Laguna de Chapulco, No. 263♂, November.

225. *Dafila acuta* (Linn.).

Anas acuta, Linn., Syst. Nat., I, 1858, p. 126.

Dafila acuta, Bonap., Comp. & Geog. List, 1838, p. 56.

Vulg.—Pato golondrino.

Hab.—State of Puebla. Laguna del Mayorazgo, No. 216♂, December; S. Baltasar, No. 216a♀, January.

226. *Aythya affinis* (Eyton).

Fuligula affinis, Eyt., Mon. Anat., 1838, p. 157.

Aythya affinis, Stejneger, Orn. Expl. Kamtsch., 1885, p. 161.

Vulg.—Pato boludo de cabeza café.

Hab.—State of Puebla. Epatlan (Izucar), No. 268a♀.

227. *Aythya collaris* (Donov.).

Anas collaris, Donov., Br. Birds, VI, 1809, pl. 147.

Aythya collaris, Ridgway, Proc. U. S. Nat. Mus., 1885, p. 356.

Vulg.—Pato boludo prieto.

Hab.—State of Puebla. Chapulco, No. 265a♀, October.

228. *Erismatura rubida* Wilson.

Anas rubida, Wilson, Am. Orn., VIII, pp. 128, 130, pl. 71, figs. 5, 6.

Erismatura rubida, Bonap., Comp. & Geog. List., 1838, p. 59.

Vulg.—Pato zambullidor de pico azul.

Hab.—State of Puebla. Laguna de Chapulco, No. 264a♀, November.—State of Vera Cruz. Jalapa, No. 379♀ ad., September.

FAM. COLUMBIDÆ.

229. *Columba fasciata* Say.

Columba fasciata, Say, Long's Exped., II, 1823, p. 10.

Vulg.—Cuanhpaloma.

Hab.—State of Puebla. Puebla, No. 337♂.

230. *Zenaidura macroura* (Linn.).

Columba macroura, Linn., Syst. Nat. I, 1758, p. 164.

Zenaidura macroura, Ridgw., Proc. U. S. Nat. Mus., 1885, p. 355.

Vulg.—Tórtola comun.

Hab.—State of Puebla. Huehuetlan, No. 168♂, 168a♀, January.

231. *Melopelia leucoptera* (Linn.).*Columba leucoptera*, Linn., Syst. Nat., I, 1758, p. 164.*Melopelia leucoptera*, Bonap., Conspr. Av., II, 1854, p. 81.*Vulg.*—Paloma torcaz de alas blancas.*Hab.*—State of Puebla. Atlixco, No. 283 ♂.232. *Scardafella inca* (Less.).*Chamapelia inca*, Less., Descr. Quadr., etc., Buffon, 1850, p. 211.*Scardafella inca*, Bonap., Conspr. Av., II, 1854, p. 85.*Vulg.*—Coquito comun.*Hab.*—State of Puebla. Huexotitla, No. 69 ♂, 69a ♀, November.233. *Columbigallina passerina pallescens* (Baird).*Chamapelia passerina*? var. *pallescens*, Baird, Proc. Ac. Philad., 1859, p. 305.*Vulg.*—Coquito de monte.*Hab.*—State of Puebla. Acatlan, No. 113 ♂; Chietla, No. 70 ♂, 70a ♀, 37 ♂, 37a ♀, December.234. *Peristera pretiosa* F. Per.*Columba cinerea*, Temminck (nec Scopoli), Pl. Col., 260.*Peristera cinerea*, "Swainson," Gray, List Gen. of Birds, 1841, p. 75.*Peristera pretiosa*, Ferrari Perez, MS.*Vulg.*—Coquito aplomado.*Hab.*—State of Vera Cruz. Jalapa, No. 223 ♂.235. *Engyptila albifrons* (Bonap.).*Leptoptila albifrons*, Bonap., Conspr. Av., II, 1854, p. 74.*Engyptila albifrons*, Coues, Bull. Nutt. Club, V, 1880, p. 100.*Vulg.*—Paloma barranquera.*Hab.*—State of Puebla. Rancho del Ahuehuete (Tecali), No. 219a ♀, June.

FAM. CRACIDÆ.

236. *Crax globicera* Linn.*Crax globicera*, Linnaeus, Syst. Nat., I, 1766, p. 270.*Hab.*—State of Vera Cruz, No. 437 ♀.237. *Penelope purpurascens* Wagler.*Penelope purpurascens*, Wagler, Isis, 1830, p. 1110.*Vulg.*—Cojolite.*Hab.*—State of Vera Cruz. Jalapa, No. 318 ♂, 318a ♀.238. *Ortalis poliocephala* Wagler.*Penelope poliocephala*, Wagler, Isis, 1830, p. 1112.*Ortalida poliocephala*, Wagler, Isis, 1832, p. 1227.*Vulg.*—Chachalaca.*Hab.*—State of Puebla. Chachapa, No. 344a ♀, February.

239. *Ortalis vetula maccalli* Baird.

Ortalida maccalli, Baird, B. N. Am., 1858, p. 611.

Ortalida vetula var. *maccalli*, Baird, Hist. N. Am. B., III, 1874, p. 398.

Vulg.—Chachalaca.

Hab.—State of Puebla. San José Acateno, No. 449 ♂, July.

FAM. TETRAONIDÆ.

240. *Colinus pectoralis* (Gould).

Ortyx pectoralis, Gould, P. Z. S., 1842, p. 182.

Vulg.—Codorniz solitaria.

Hab.—State of Puebla. Chietla, No. 166 ♂, 166a ♀, December.

241. *Philortyx personatus* Ridgway, sp. nov.

Philortyx personatus, Ridgway, Auk, III, July, 1886, p. 333.

Vulg.—Codorniz de copete.

Hab.—State of Puebla. Chietla, No. 157 ♂, type, December.

[SP. CHAR.—Somewhat like *P. fasciatus*, GOULD, but differing in having the bill light brown instead of black, and the forehead, cheeks, and throat black, instead of brown and white.

Young ♂, *transition plumage* (type, No. 157, collection of the Comision Geografico Exploradora de Mexico, Chietla, Puebla, December, 1884): Forehead, cheeks, chin, and throat, uniform black; lores and post-ocular region dull ochraceous; feathers of crown, including those of the crest (the longest of which extend 1.25 inches from the base of the culmen), brownish black, with transverse spots or irregular bars of fulvous; occiput and nape light brown, barred with dusky, the lower part of the cervix uniform light grayish brown; scapulars, interscapulars, tertials, and some of the wing-coverts, light grayish brown, marked with a broad mesial streak of whitish, and large terminal or subterminal spots of black. (A few *new* feathers on the anterior portion of the scapular area have a terminal bar of dull buff preceded by a broad subterminal band or spot of black.) Primaries brownish gray, the outer webs irregularly spotted with pale brownish buff. Rump grayish brown, finely mottled with darker, some of the feathers with indistinct lighter tips and dusky subterminal spots; upper tail-coverts similar, but with more distinct markings. Tail finely mottled with light brown, pale dull grayish buff, and dusky, the coarser mottlings disposed in the form of indistinct but very regular bars. *Old feathers* (immature plumage) of jugulum and breast dusky, each with a sharply defined and very conspicuous white mesial streak; *new feathers* (adult plumage) alternately barred with blackish brown and white; new feathers of lower breast more broadly barred, the darker bars deep black; sides and flanks (old feathers) irregularly barred and spotted with dusky, on a white ground; abdomen white, immaculate in middle portion; lower tail-coverts pale dull buffy or brownish white. Bill light reddish brown;

feet horn-brown. Wing, 3.80; tail, 2.00; culmen, .42; depth of bill at base, .30; tarsus, 1.00; middle toe, .92.

This very distinct new species has its nearest ally in the *Philortyx fasciatus*, Gould, from Western Mexico (Colima), which, however, is larger, has the bill more robust and deep black, and has the chin, throat, and malar region wholly immaculate white.—R. R.]

FAM. RALLIDÆ.

242. *Rallus elegans tenuirostris*, Lawrence.

Rallus elegans var. *tenuirostris* Lawrence, Am. Nat., February, 1874, p. 111.

Vulg.—Raseon de agua.

Hab.—State of Tlaxcala. Laguna del Rosario, No. 211♂, October.

243. *Aramides albiventris*, Lawrence.

Aramides albiventris Lawrence, Proc. Ac. Phil., 1867, p. 234.

Vulg.—Gallina de Mostezuma, Totocalea.

Hab.—State of Vera Cruz. Actopam, No. 273♂; Vega de Alatorre, No. 453♂, August.

244. *Porzana carolina* (Linn.).

Rallus carolinus Linn., Syst. Nat., 1858, I, p. 153.

Porzana carolina Baird, Lit. Rec. & Jour., Linn. Assoc., Penn. Col., October, 1845, p. 255.

Vulg.—Gallinita de ciénega.

Hab.—State of Puebla. Chapuleo, No. 145a♀, September; 145♂, October.

245. *Fulica americana* Gmelin.

Fulica americana Gmelin, Syst. Nat., 1788, p. 704.

Vulg.—Gallareta de pico blanco.

Hab.—State of Puebla. Laguna de Chapuleo, No. 246♂, November. State of Tlaxcala. Laguna del Rosario, No. 246a♀, October.

FAM. ARAMIDÆ.

246. *Aramus giganteus* (Bonaparte).

Rallus giganteus Bonaparte, Jour. Ac. Philad., 1825, p. 31.

Aramus giganteus Baird, B. N. A., 1858, p. 657.

Hab.—State of Vera Cruz. Santa Ana, No. 447 ♀, February.

FAM. JACANIDÆ.

247. *Jacana gymnostaoma* (Wagler.)

Parra gymnostaoma Wagler, Isis, 1831, p. 517.

Jacana gymnostaoma Zeledon, Proc. U. S. Nat. Mus., 1885, p. 114.

Vulg.—Jacaná, Cirujano, Gallito de laguna.

Hab.—State of Puebla. Laguna de Epatlan, No. 249♂, 249a♀, 274♂, 274a ♀, December.—State of Vera Cruz. Jalapa, Nos. 472 ♂, 495 ♂, 496, August.

FAM. CHARADRIIDÆ.

248. *Charadrius dominicus* Müller.*Charadrius dominicus* Müller, Syst. Nat. Suppl., 1776, p. 116.*Vulg.*—Pluvial dorado.*Hab.*—State of Puebla. Huertas de S. Javier (Puebla), No. 209a ♀, March.—State of Tlaxcala. Nativitas, No. 194 ♂, October.249. *Ægialitis vociferus* (Linn.).*Charadrius vociferus* Linn., Syst. Nat., 1758, I, p. 150.*Ægialitis vociferus* Bonap., Comp. & Geog. List., 1838, p. 45.*Vulg.*—Chichicuilo de collar, Tildio.*Hab.*—State of Puebla. Chapuleo, Nos. 150 ♂, 150a ♀, October.—State of Vera Cruz. Jalapa, Nos. 429 ♀, 431 ♂, December.

FAM. SCOLOPACIDÆ.

250. *Himantopus mexicanus*, Müller.*Charadrius mexicanus* Müller, S. N. Suppl., 1776, p. 117.*Himantopus mexicanus* Ord ed. Wilson, VII, 1824, p. 52.*Vulg.*—Candelero.*Hab.*—State of Puebla. Laguna de Chapulco, Nos. 252 ♂, 252a ♀, November.251. *Phalaropus tricolor* (Vieillot).*Steganopus tricolor* Vieillot, Nouv. Dict., XXXII, 1819, p. 136.*Phalaropus tricolor* Stejneger, Auk., II, 1885, p. 182.*Vulg.*—Chichicuilo nadador.*Hab.*—State of Puebla. Laguna de Chapulco, Nos. 183 ♂, 183a ♀, September; Nos. 152 ♂, 152a ♀, October.252. *Gallinago delicata* (Ord.).*Scolopax delicata* Ord ed. Wils. Orn., 25, IX, 1825, p. cxxviii.*Gallinago delicata* Ridgway, A. O. U. Check List, 1886, p. 148.*Vulg.*—Agachoma, Becacina.*Hab.*—State of Tlaxcala. Laguna del Rosario, Nos. 149 ♂, 184a ♀, September; Nos. 149a ♀, 184 ♂, October.253. *Micropalama himantopus* (Bonap.).*Tringa himantopus* Bonap., Am. Lyc. N. Y., II, 1826, p. 157.*Micropalama himantopus* Baird, B. N. Am., 1858, p. 726.*Vulg.*—Chorlete desconocido.*Hab.*—State of Tlaxcala. Laguna del Rosario, No. 151 ♂, January.254. *Totanus melanoleucus* (Gmelin).*Scolopax melanoleuca* Gmelin, Syst. Nat., I, 1788, p. 659.*Totanus melanoleucus* Vieillot, Nouv. Dict., VI, 1816, p. 398.*Vulg.*—Zarapico grande.*Hab.*—State of Tlaxcala. Nativitas, No. 254 ♂, October; Laguna del Rosario, No. 254a ♀, October.

255. *Numenius longirostris* Wilson.*Numenius longirostris* Wilson, Am. Orn., VIII, 1814, p. 24, pl. 64, fig. 4.*Vulg.*—Chorlo real.*Hab.*—State of Puebla. Laguna de S. Baltazar, No. 255 ♂, September.

FAM. LARIDÆ.

256. *Sterna maxima* Bodd.*Sterna maxima* Bodd., Tabl. P. E., p. 58.*Vulg.*—Gaviota.*Hab.*—State of Vera Cruz. Jalapa, No. 270 ♂.257. *Hydrochelidon nigra surinamensis* (Gmelin).*Sterna surinamensis* Gmelin, Syst. Nat., I, 1788, p. 604.*Hydrochelidon nigra surinamensis* Stejneger, Proc. U. S. Nat. Mus., V, 1882, p. 40.*Vulg.*—Golondrina de mar.*Hab.*—State of Puebla. Laguna de S. Baltazar, No. 165 ♀, October; Laguna de Chapulco, No. 165a ♀, October.258. *Larus atricilla* Linn.*Larus atricilla* Linn., Syst., Nat., I, 1758, p. 136.*Vulg.*—Apipisca grande de alas largas, Gaviota..*Hab.*—State of Vera Cruz. Jalapa, No. 267 ♂; Vega de Alatorre, No. 454 ♀, ad., July; Vera Cruz, No. 457 ♀ juv., January.259. *Larus franklinii* Sw. & Rich.*Larus franklinii* Sw. & Rich., F. B. A., II, 1831, p. 424, pl. 71.*Vulg.*—Apipisca.*Hab.*—State of Puebla. Laguna de S. Baltazar (Puebla), No. 230 ♂, 230a ♀, September.260. *Larus californicus* Lawrence.*Larus californicus* Lawr., Ann., Lye., Nat. Hist. N. Y., VI, 1854, p. 79.*Vulg.*—Paviota.*Hab.*—State of Vera Cruz. Alvarado, No. 322 ♂.

FAM. PODICIPITIDÆ.

261. *Aechmophorus occidentalis* (Lawrence).*Podiceps occidentalis* Lawr., in Baird's B. N. Am., 1858, p. 894.*Aechmophorus occidentalis* Cones, Pr. Ac. Philad., 1862, p. 229.*Vulg.*—Gallina soldado.*Hab.*—State of Puebla. Laguna de Epatlan, No. 256 ♂, December.262. *Colymbus nigricollis californicus* (Heerm.).*Podiceps californicus*, Heerm., Proc. Ac. Philad., 1854, p. 179.*Colymbus nigricollis californicus* Ridgway, Proc. U. S. Nat. Mus., 1885, p. 356.*Vulg.*—Zambullidor de pico delgado.*Hab.*—State of Puebla. Laguna de Epatlan (Isucar), No. 258a ♀, December.—State of Vera Cruz. Jalapa, No. 497 ♂, young, August.

263. *Colymbus dominicus* Linn.*Colymbus dominicus* Linnaeus, Syst. Nat., I, 1766, p. 223.

Hab.—State of Vera Cruz. Jalapa, Nos. 476♂, 477♂, 381♀, August.

264. *Podilymbus podiceps* (Linn.).*Colymbus podiceps* Linn., Syst. Nat., I, 1758, p. 136.*Podilymbus podiceps* Lawr., in Baird's B. N. Am., 1858, p. 898.

Vulg.—Zambullidor de pico grueso.

Hab.—State of Puebla. Laguna de Chapuleo, No. 269♂.

FAM. TINAMIDÆ.

265. *Crypturus sallaei* (Bonap.).*Nothocreus sallai* Bonap., Compt. Rend., XLII, 1856, p. 954.*Crypturus sallai* Selat. & Salv., Exot. Orn., t. 45.

Vulg.—Abutarda.

Hab.—State of Vera Cruz. Jalapa, No. 248♂.

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<i>Ampelis</i>	39	<i>Chlorospingus</i>	51		
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<i>Aramides</i>	243	<i>Cochlearius</i>	215		
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III.—REPTILES.

By F. FERRARI PEREZ.

With descriptions of new species, by Prof. E. D. Cope.

Whilst the collections of the Commission were at the Exposition at New Orleans they were examined by various specialists, and that of reptiles and batracians was carefully studied by the distinguished herpetologist, Prof. E. D. Cope, who published a preliminary list with the description of a new genus and species in the Proceedings of the American Philosophical Society of the year 1885, pp. 379–382. Owing to the short time he could spend in New Orleans, and to other circumstances, some of the species and the corresponding localities were not included in the list. Moreover, the collection has increased considerably in species and examples since that time, as well for the reason that the Commission has continued collecting and has sent to this capital a good number of the examples recently met with, as also because the secretary of Fomento of Mexico decided, by suggestion of the sub-secretary of the same ministry, Engineer Manuel Fernandez Leal, that the collection made in the State of Chiapas by Mr. Rafael Montes de Oca during the years that he discharged the office of naturalist of the commission of limits between Mexico and Guatemala should

remain in the hands of the Commission. Unfortunately this last came to the present writer without any precise indications of localities, a fact which obliged us to include them merely as coming from the State of Chiapas. All the identifications and descriptions of new species have been made by Professor Cope in Philadelphia, whither the present writer has been twice for that purpose.

OPHIDIA.

FAM. STENOSTOMIDÆ.

1. *Stenostoma phænops* Cope.

Stenostoma phænops Cope, Jour. Acad. Philad., 1875, p. 128.

Vulg.—Culebra pinta.

Hab.—State of Vera Cruz. Jalapa, No. 48, December.

2. *Stenostoma macrolepis* Peters.

Vulg.—Culebra.

Hab.—State of Puebla. Teziutlan, No. 50, December.

FAM. BOIDÆ.

3. *Boa imperator* Daudin.

Boa imperator Daudin, Hist. Rept., V, 1802, p. 150; Duméril et Bocourt, Miss. scient. Mex., III, 1882, p. 519, pl. XXX, fig. 8, 8a, 8b, 8c.

Vulg.—Boa, Vivora de cabeza de perro, Mazacatl.

Hab.—State of Vera Cruz. Jicaltepec (Jalapa), No. 6, December; Jalapa, Nos. 273, 362♀, December.—State of Chiapas. ? Nos. 235, 258.

FAM. COLUBRIDÆ.

4. *Leptognathus nebulata* (Linnaeus).

Coluber nebulatus Linnaeus, Syst. Nat., I, 1758, p. 222.

· *Leptognathus nebulatus* Günther, Cat. Colubr. Snak., 1858, p. 177.

Vulg.—Vivora de barriga amarilla.

Hab.—State of Vera Cruz. Jicaltepec (Jalapa), No. 69, December.

5. *Leptognathus fasciata* (Günther).

Tropidodipsas fasciata Günther, Cat. Colubr. Snak., 1858, p. 181.

Vulg.—Coralillo.

Hab.—State of Vera Cruz. Jicaltepec (Jalapa), Nos. 21, 22, 23, 24, 25, 26, 27, 28, 29, December.

6. *Sibon annulatum* (Linnaeus).

Coluber annulatus Linnaeus, Syst. Nat., I, 1758, p. 224.

Sibon annulatus Fitzinger, Neue Class. Rep., 1826, p. 60.

Vulg.—Culebra de agua, Culebra pinta.

Hab.—State of Puebla. Hueytamaleo (Teziutlan), No. 44, December. State of Vera Cruz. Jicaltepec (Jalapa), Nos. 45, 89, 90, 91, 92, 93, 94,

95, 96, December. Jalapa, Nos. 47, 85, December.—State of Chiapas. Nos. 236, 248, 249, 250, 251, 254, 256, 257.

7. *Sibon frenatum*, Cope, sp. nov.

Vulg.—Coralillo.

Hab.—State of Vera Cruz. Jalapa, No. 298, type.

[Scales in twenty-three longitudinal series. Body rather slender, tail rather short, head very distinct and depressed. Superior labials nine, eye resting on the fourth and fifth, and only separated from the third by the small inferior preocular. All are higher than long, excepting the eighth and ninth, which are longer than high; the sixth and seventh are the largest. Inferior labials, eleven. Postgenaeials much longer than pregenaeials. Loreal plate subquadrate; oculars, 2-2; the superior anterior not reaching frontal plate. Temporals, 1-2-3. Frontal twice as long as wide, with parallel sides. Occipitals moderate, reaching to above middle of eighth superior labials. Gastrosteges, 188; anals, 1-1; urosteges, 69.

Colors: above black, below white. At distances of from six to nine scales, narrow cross-bands of one scale in width rise from the abdominal border color, and meet or terminate in alternating positions, on or near the middle line of the back. These bands are more or less gray, sometimes darker in the middle. The top of the head is gray, densely mottled with blackish, leaving a crescentic space of light gray between a black spot behind the head-shields and the beginning of the black of the superior surfaces. A broad black band passes downwards and posteriorly from the eye, and crossing the angle of the mouth, covers the side of the neck, and unites with the black of the following regions. The superior labials are light-gray with black borders; the dark borders of the inferior labials are less distinct.

Total length, 305^{mm}; of tail, 66^{mm}; of head to canthus oris, 11^{mm}.

No. 298. Jalapa, Mexico.

This species is nearest the *S. personatum* Cope from Mazatlan, although the coloration is very different. That species has but one preocular, eight superior labials, &c.—E. D. Cope.]

8. *Trimorphodon collaris* Cope.

Trimorphodon collaris Cope, Journ. Ac. Philad., 1875, p. 131.

Vulg.—Culebra.

Hab.—State of Puebla. Izucar de Matamoros, No. 56, November.

9. *Dipsas cenchia* (Linnaeus).

Coluber cenchia, Linnaeus, Syst. Nat., I, 1758, p. 226; I, 1766, p. 389.

Dipsas cenchia, Wied, Beitr., I, 1825, p. 396.

Vulg.—Miahuaecuitlapitl.

Hab.—State of Vera Cruz. Sán José Acatino, No. 302.

10. **Dipsas gemmistrata** Cope.

Himantodes gemmistratus Cope, Proc. Acad. Philad., 1861, p. 296.

Dipsas gemmistratus Cope, Journ. Acad. Philad., 1875, p. 131.

Hab.—State of Chiapas. ? Nos. 247, 260.

11. **Dryophis acuminata** Wied.

Coluber acuminatus Wied., Abbildg., Lief. 14, 1822, t. 1; Beitr., I, 1825, p. 322.

Dryophis acuminata Günther, Cat. Colnbr. Snak., 1858, p. 156.

Hab.—State of Chiapas. ? No. 259.

12. **Hapsidophrys mexicanus** (Duméril et Bibron).

Leptophis mexicanus Duméril et Bibron, Erpét. Gén., VII, I, 1854, p. 536.

Hapsidophrys mexicanus Cope, Proc. Amer. Philos. Soc., 1885, p. 279.

Vulg.—Vivora azul.

Hab.—State of Vera Cruz. Jicaltepec (Jalapa), Nos. 57, 58, December.

13. **Drymobius boddaertii** (Setzen).

Coluber boddaertii Setzen, Meyers Arch. Zool., XI, 1795, p. 59.

Drymobius boddaertii Cope, Proc. Acad. Philad., 1860, p. 561.

Vulg.—Vivora gris.

Hab.—State of Vera Cruz. Actopam, No. 295.

14. **Drymobius margaritiferus** (Schlegel).

Herpetodryas margaritiferus Schlegel, Ess. Serp., I, p. 151; II, p. 184.

Drymobius margaritiferus Cope, Proc. Acad. Philad., 1860, p. 561.

Vulg.—Culebra verde.

Hab.—State of Vera Cruz. Misantla, No. 14, December; Jicaltepec (Jalapa), Nos. 17, 18, 19, 20, December. State of Puebla. Hueytamaleo (Teziutlan), Nos. 15, 16, December.

15. **Coluber flavirufus** Cope.

Coluber flavirufus Cope, Proc. Acad. Philad., 1866, p. 319.

Hab.—State of Chiapas. ? No. 255.

16. **Spilotes auribundus** Cope.

Spilotes pullatus auribundus Cope, Proc. Acad. Philad., 1861, p. 300.

Spilotes salvini Günth.

Hab.—State of Chiapas. ? No. 245.

17. **Spilotes corais** (Cuvier).

Coluber corais "Cuvier," Boie, Isis, 1827, p. 537.

Spilotes corais Duméril et Bibron, Erpét. Gén., VII, I, 1854, p. 223.

Vulg.—Culebra.

Hab.—State of Chiapas. ? Nos. 233, 234, 237, 238.

18. **Spilotes corais erebennus** Cope.

Spilotes erebennus Cope, Proc. Acad. Philad., 1860, p. 564.

Spilotes corais subspecies *erebennus* Cope, Jour. Acad. Philad., 1875, p. 135.

Vulg.—Culebra negra.

Hab.—State of Vera Cruz. Jalapa, Nos. 275, 277, 361 ♀.

19. **Rhinechis deppei** (Duméril et Bocourt).

Elaphis deppei Duméril et Bocourt, Erpét. Gén., VII, 1854, p. 268.

Rhinechis deppei Cope, Cat. Rep. Mex. et Amér. Centr., MS.

Vulg.—Palancacoatl.

Hab.—State of Vera Cruz. S. José. Acatino, No. 303.

20. **Tropidonotus rhombifer** Hallowell.

Tropidonotus rhombifer Hallowell, Proc. Acad. Phil., 1852, p. 177.

Hab.—State of Vera Cruz. Misantla, No. 5, December.

21. **Tropidonotus mesomelanus** Jan.

Tropidonotus mesomelanus Jan., Elenco sist. Ofidi, 1863, p. 73.

Vulg.—Culebra.

Hab.—State of Vera Cruz. Jicaltepec (Jalapa), No. 77, December.

22. **Eutaenia scalaris** Cope.

Thamnophis scalaris Cope, Proc. Acad. Phila., 1860, p. 369.

Eutaenia scalaris Cope, Proc. Acad. Phila., 1866, p. 306.

Vulg.—Culebra pinta rayada.

Hab.—State of Puebla. Puebla, No. 74.—State of Vera Cruz? S. José Acatino, No. 299.

23. **Eutaenia pulchrilatus** Cope.

Eutaenia pulchrilatus Cope, Proc. Am. Philos. Soc., 1884, p. 174.

Vulg.—Culebra de agua.

Hab.—State of Puebla. Teziutlan, No. 46, December.

24. **Eutaenia flavilabris** Cope.

Eutaenia flavilabris Cope, Proc. Acad. Phila. 1866, p. 306; Proc. Am. Philos. Soc. 1884, p. 173.

Vulg.—Culebra verde de agua.

Hab.—State of Puebla. Puebla, Nos. 279, 280, 281, 282, 283, 288, 291.

25. **Eutaenia proxima** Say.

Coluber proximus Say, Long's Exp. Rock. Mount., I, 1823, p. 187.

Eutainia proxima Baird & Girard, Cat. Serp., 1853, p. 25.

Vulg.—Culebra ranera.

Hab.—State of Vera Cruz. Jalapa, No. 86.

26. **Eutaenia sirtalis** (Linnæus).

Coluber sirtalis Linnæus, Syst. Nat., I, 1766, p. 383.

Eutainia sirtalis Baird & Girard, Cat. Serp., 1853, p. 30.

Hab.—State of Vera Cruz. Jicaltepec (Jalapa), No. 88.

27. **Ninia diademata** Baird & Girard.

Ninia diademata Baird & Girard, Cat. North. Am. Rep., I, January, 1853, p. 49.

Streptophorus bifasciatus Duméril et Bibron, Mem. Ac. Seien., XXIII, 1853, p. 468; Duméril et Bocourt, Miss. Scient. Mex., III, 1883, p. 545, pl. XXXII, fig. 10, 10a, 10b.

Vulg.—Culebra café.

Hab.—State of Vera Cruz. Jalapa, No. 71; Jicaltepec (Jalapa), Nos. 80, 81, 82, 83, 84, December.

28. *Ninia atrata sebæ* (Duméril et Bibron).

Coluber atratus Hallowel, Proc. Ac. Philad., 1845, p. 245.

Ninia atrata Hallow., var. *Sebæ*, D. & B.—Cope, Proc. Am. Philos. Soc., 1855, p. 382.

Streptophorus Sebæ Duméril et Bibron, Variété *atratus*, Hallowel.—Duméril et Bocourt, Miss. Scient. Mex., III, 1853, p. 548.

Vulg.—Culebra.

Hab.—State of Vera Cruz. Jicaltepec (Jalapa), Nos. 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, December.

29. *Storeria dekayi* (Holbrook).

Tropidonotus dekayi Holbrook, N. Am. Herp., IV, 1843, p. 53, pl. XIV.

Storeria dekayi Baird & Girard, N. Am. Rep., I, 1853, p. 135.

Vulg.—Vivora gris.

Hab.—State of Vera Cruz. Jicaltepec (Jalapa), Nos. 63, 64, 65, 66, 67, December.

30. *Oxyrhopus clœlia* (Daudin).

Coluber clœlia Daudin, Hist. Rep., VI, 1803, p. 330, pl. 78.

Oxyrhopus clœlia Günther, Cat. Colubr. Snak., 1858, p. 189.

Hab.—State of Chiapas. ?No. 242.

31. *Conophis pulcher* Cope.

Conophis pulcher Cope, Proc. Acad. Phila., 1868, p. 308.

Hab.—State of Chiapas. ?No. 246, var.

32. *Ophibolus polyzonus* Cope.

Lampropeltis polyzonus Cope, Proc. Acad. Phila., 1860, p. 258.

Ophibolus polyzonus Cope, Proc. Acad. Phila., 1865, p. 197.

Coronella formosa Schl. Jan.

Vulg.—Coralillo.

Hab.—State of Puebla. Hueytamalco (Teziutlan), Nos. 4, 42, 43, December.—State of Vera Cruz. Jicaltepec (Jalapa), Nos. 3, 7, 8, 9, December; Misantla, Nos. 10, 11, 12, 13.—State of Chiapas. ?Nos. 240, 241.

33. *Erythrolamprus imperialis* (Baird & Girard).

Teniodphis imperialis Baird & Girard, U. S. & Mex. Bound. Surv. Zool. Rep., p. 23, pl. 19, f. 1.

Erythrolamprus imperialis Cope, Cat. Rep. Mex. and Centr. Am., 1886, MS.

Vulg.—Vivora.

Hab.—State of Vera Cruz. Jicaltepec (Jalapa), No. 70, December.

34. *Erythrolamprus proterops* Cope.

Coniophanes proterops Cope, Proc. Acad. Phila., 1860, p. 249.

Erythrolamprus proterops Cope, Cat. Rep. Mex. and Centr. Am., 1886, MS.

Vulg.—Culebra rayada.

Hab.—State of Puebla. Hueytamaleo (Teziutlan), No. 55, December.

35. *Erythrolamprus fissidens* (Günther).

Coronella fissidens Günther, Cat. Colubr. Snak., 1858, p. 36.

Erptherolamprus fissidens Cope, Cat. Rep. Mex. & Centr. Am., 1886, MS.

Vulg.—Vivora parda.

Hab.—State of Vera Cruz. Arroyo del Potrero, No. 305.

36. *Erythrolamprus punctigularis* Cope.

Coniophanes punctigularis Cope, Proc. Acad. Phila., 1860, p. 248.

Erythrolamprus punctigularis Cope, Cat. Rep. Mex. & Centr. Am., 1886, MS.

Hab.—State of Chiapas. ? No. 253.

37. *Pliocercus elapoides* Cope.

Pliocercus elapoides Cope, Proc. Acad. Philad., 1860, p. 253.

Vulg.—Coralillo.

Hab.—State of Puebla. Hneytamaleo (Teziutlan), No. 41, December.

38. *Henicognathus annulatus* Duméril et Bibron.

Enicognathus annulatus Duméril et Bibron, Erpét Gén., vii, I, 1854, p. 335.

Vulg.—Coralillo.

Hab.—State of Vera Cruz. Arroyo del Potrero, No. 304.

39. *Henicognathus annulata cyclura*, Cope subsp. nov.

Henicognathus annulata cyclura Cope, MS.

Vulg.—Culebra,

Hab.—State of Vera Cruz. Jicaltepec (Jalapa), No. 78, December.

40. *Rhadinæa decorata* (Günther).

Coronella decorata Günther, Cat. Colubr. Snak., 1858, p. 35.

Rhadinæa decorata Cope, Proc. Acad. Phila. 1865, p. 197.

Vulg.—Culebra chata.

Hab.—State of Vera Cruz. Jalapa, No. 72.

41. *Chionactis diasi* Cope, sp. nov.

Conopsis lineatus Dum. et Boe., Mision Scientif. de Mexique, Reptiles, p. 565,
not *Tolueca lineata* Kenn.

Vulg.—Culebra, vivora parda.

Hab.—State of Puebla. Puebla, Nos. 75 type, 76, 292, 293, 294.

[Scales wide, especially on the sides, in seventeen rows. Rostral very protuberant, rapidly narrowed to an obtuse extremity, considerably visible from above, but not concave nor entering between the internasals. The latter, and the prefrontals, are considerably wider than long. Frontal longer than wide; parietals regularly rounded and not divaricate behind. Seven superior labials, all higher than long except the first and seventh, which are subquadrate. Oculars, 1-2; temporals, 1-2-2. Gastrosteges, 121; anal, 1-1; urosteges, 37. In a second specimen there are only 35 urosteges. Color brown above, with five indistinct longitudinal bands on the third and fourth, and on the sixth on each side and on the median line. Below yellow, two brown spots on each gastrosteges, marking thirds of the length. Head and lateral plates unspotted. Nos. 75, 76, 292, 293, 294, collection of the Comision Geografica, from near Puebla.

I dedicate this species to Señor Augustine Diaz, C. E., president of the Comision Geografica Exploradora of Mexico. Science is much in-

debted to M. Diaz for the organization and successful conduct of the Comision.

This species has been figured and described by M. Bocourt as the *Toluca lineata* of Kennicott, from which it differs in various respects, one of which refers it, in my opinion, to another genus. Besides the typical species of *Chionactis* and the *C. occipitalis* Hallow. from Arizona, there are two species of *Ogmus* (Cope) which considerably resemble the *Chionactis diazii*. These are the *O. varians* Jan. and a new species which I call *O. acutus*. Before describing the latter I compare three Mexican species, as follows:

I. Rostral plate slightly concave above.

Occipital plates divaricate posteriorly; a dorsal series of spots; *O. varians* Jan.

II. Rostral plate flat or convex above.

Occipitals rounded without notch behind; five longitudinal bands; rostral less acute; *C. diazii* Cope.

Occipitals rounded; a series of dorsal transverse spots; rostral acute angled; *O. acutus* sp. nov.

The *O. acutus* was sent to the National Museum, by Sumichrast, from Tuchitan, on the Pacific side of the isthmus of Tehuantepec. It nearly resembles the *C. diazii* in all important respects, but has the rostral plate produced to an acute point. The coloration is totally different, resembling rather the *O. varians*. It consists in the type specimen of sixty-one black transverse spots of one scale in length and three to five scales width, separated by interspaces of a scale and a half in length. Sides, abdomen, and head, including lips, unspotted. Gastrosteges, 127; anal, 1-1; urosteges, 32. Total length, 249^{mm}; of tail, 40^{mm}; of head, 10^{mm}.—E. D. COPE.]

42. *Tantilla calamarina* Cope.

Tantilla calamarina Cope, Proc. Acad. Phila., 1866, 320.

Vulg.—Culebra.

Hab.—State of Puebla. Teziutlan, No. 49, December.

43. *Rhabdosoma semidoliatum* Duméril et Bibron.

Rhabdosoma semidoliatum Duméril et Bibron, Erpét. gén., VII, 1, 1854, p. 93.

Vulg.—Culebra, Coralillo.

Hab.—State of Vera Cruz. Misantla, Nos. 51, 52, 53, 54; Jalapa, No. 297.

44. *Rhabdosoma longiceps* Cope, sp. nov.

Vulg.—Culebra negra.

Hab.—State of Vera Cruz. S. José Acateno, No. 301 type.

[This snake possesses all the principal characters of the *R. mutitorques* Cope (Proceedings Amer. Philos. Soc. 1885, p. 385), but differs from the dozen or so of that species now in my collection by a constantly more elongate head and scuta, especially the prefrontals and superior labials.

Scales in seventeen longitudinal rows, the median a little narrowed. Rostral plate just visible from above. Prefrontals much longer than wide, five or six times as large as internasals. Frontal subtriangular, wider than long; superciliary not very small. Postocular very small; temporals very narrow, 1-2. Superior labials six; all except first, second, and fourth, longer than high; the fifth and sixth twice as long as high; the first as high as long. Inferior labials seven, fourth largest; first of opposite sides well in contact. Postgenaeials little different from adjacent scales, not in contact. Gastrosteges, 173; anal, 1; urosteges, 28. Extremity of tail with a compressed horny cap. Color everywhere blackish; some brownish shades on the sides near the head. Free edges of scuta and scutella, and of lateral scales, lighter. Total length, 445^{mm}; of tail, 44^{mm}; of head to rictus oris, 10^{mm}.

San José Acateno, Vera Cruz; No. 301.—E. D. COPE.]

45. Adelphicos quadrivirgatus Jan.

Adelphicos quadrivirgatus Jan, Arch. per la Zool., II, 1862, p. 18; Duméril & Bocourt, Miss. Scient. Mex., III, 1883, p. 554, pl. xxxii, fig. 11, 11a, 11b, 11c, 11d, 11e.

Vulg.—Culebra.

Hab.—State of Vera Cruz. Jicaltepec (Jalapa), No. 79, December.

FAM. ELAPIDÆ.

46. Elaps nigrocinctus Girard.

Elaps nigrocinctus Girard, U. S. Wilkes's Astr. Exp., p. —.

Vulg.—Coralillo.

Hab.—State of Chiapas. (?) Nos. 243, 244.

47. Elaps apiatus, Jan.

Elaps apiatus Jan, Prodr. Ophid., 1859, p. 11, pl. A.

Vulg.—Coralillo.

Hab.—State of Vera Cruz. Jicaltepec (Jalapa), No. 40, December.

48. Elaps bernardi Cope, sp. nov.

Elaps bernardi Cope. (Described on subsequent page of this volume.)

Vulg.—Coralillo.

Hab.—State of Vera Cruz. S. José Acateno, No. 300.

FAM. CROTALIDÆ.

49. Ophryacus undulatus (Jan).

Atropus undulatus Jan, Rev. et Mag. Zool., 1859, p. 157.

Ophryacus undulatus Cope, Proc. Am. Philos. Soc., 1884, p. —.

Vulg.—Vivora cornuda.

Hab.—State of Vera Cruz. Actopam, No. 296.

50. Bothrops atrox (Linnaeus).

Coluber atrox Linnaeus, Syst. Nat., I, 1758, p. 222: I, 1766, p. 383.

Bothrops atrox Wagler, Natür. Syst., 1830, p. 1174.

Vulg.—Nauyague, Nauyac, Xochinauyague.

Hab.—State of Vera Cruz. Jicaltepec (Jalapa), Nos. 1, 2, 59, 60, 61, 62, December; Jalapa, No. 73.

51. *Crotalus durissus* Linnaëns.

Crotalus durissus Linnaëns, Syst. Nat., I, 1766.

Vulg.—Vivora de cascabel.

Hab.—State of Chiapas. ? No. 239.

52. *Crotalus basiliscus* Cope.

Caudisona basilica Cope, Proc. Acad. Phila., 1864, p. 166.

Vulg.—Vivora de cascabel, Palancaeaoatl.

Hab.—State of Puebla. Chachapa, No. 290; Puebla, No. 284.

53. *Crotalus triseriatus* (Wagler).

Uropsophus triseriatus Wagler, Natür. Syst. Amphib., 1830, p. 176.

Crotalus triseriatus Cope, Proc. Amer. Philos. Soc., 1884, p. 179.

Vulg.—Vivora de cascabel.

Hab.—State of Puebla. Tezuitlan, No. 68, December.

LACERTILIA.

FAM. EUBLEPHARIDÆ.

54. *Coleonyx elegans* Gray.

Coleonyx elegans Gray, Ann. and Mag. Nat. Hist., XVI, 1845, p. 163. Bocourt, Miss. Scient. Mex., III, 1873, p. 49, pl. X, fig. 7, 7a, 7b, 7c, 7d.

Vulg.—Lagartija rayada.

Hab.—State of Vera Cruz. Jalapa, No. 139.

FAM. ANOLIDÆ.

55. *Anolis nebulosus* (Wiegmann).

Dactyloa nebulosa Wiegmann, Herp. Mex., 1834, p. 47.

Anolis nebulosus Duméril et Bocourt, Miss. Scient. Mex., III, p. 68, pl. XV, fig. 3.

Vulg.—Lagartija.

Hab.—State of Puebla. Tepexi, No. 143, October.

56. *Anolis nannodes* Cope.

Anolis nannodes Cope, Proc. Acad. Phila., 1864, p. 173. Duméril et Bocourt, Miss. Scient. Mex., III, p. 71, pl. XV, fig. 5.

Vulg.—Lagartija de cola larga.

Hab.—State of Vera Cruz. Jicaltepec (Jalapa), No. 138, December; Actopam, Nos. 329, 330, 338, 339.

57. *Corythophanes hernandesii* (Wiegmann).

Chamaleopsis hernandesii Wiegmann, Isis, 1831, p. 298; Herp. Mex., 1834, p. 38, pl. VI.

Corythophanes (Chamaleopsis) hernandesii Fitzinger, Syst. Rep., p. 222.

Corythophanes Mexicanus Hernandez, Duméril et Bocourt, Miss. Scient. Mex. 1874, p. 122, pl. XVII, fig. 1.

Vulg.—Chupa tabaco.

Hab.—State of Vera Cruz. Misantla, No. 133.

58. *Læmanctus serratus* Cope.

Læmanctus serratus Cope, Proc. Acad. Phila., 1864, p. 176. Duméril et Bocourt, Comm. Scient. Mex., III, 1874, p. 116.

Vulg.—Chupa tabaco.

Hab.—State of Vera Cruz. Misantla, No. 126; Jicaltepec (Jalapa), No. 132, December.

59. *Læmanctus longipes* Wiegmann.

Læmanctus longipes Wiegmann, Herp. Mex., 1834, p. 46, t. IV.

Vulg.—Lagartija de cola larga.

Hab.—State of Vera Cruz. Actopam, No. 337.

60. *Basiliscus vittatus* Wiegmann.

Basiliscus vittatus Wiegmann, Isis, 1828, p. 373; Duméril et Bocourt, Miss. Scient. Mes., III, p. 129, pl. XVII, fig. 3.

Vulg.—Basilisco.

Hab.—State of Chiapas. ? No. 267.

61. *Iguana tuberculata* Laurenti.

Ignana tuberculata Laurenti, Synops. Rep., p. 49.

Vulg.—Iguana real.

Hab.—State of Puebla. Chiantla, No. 272.—State of Vera Cruz. Vega de Alatorre, No. 353.

62. *Ctenosaura teres* (Harlan).

Cyclura teres Harlan, Journ. Acad. Phila., 1824, pp. 246, 250, pl. XVI; Wiegman, Herp. Mex., 1834, p. 43.

Ctenosaura teres Duméril et Bocourt, Miss. Scient. Mex., III, p. 142.

Vulg.—Iguana verde.

Hab.—State of Puebla. Ialtepec (Izucar de Matamoros), Nos. 286, 364.—State of Vera Cruz. Vega de Alatorre, No. 352; Jicaltepec (Jalapa), ? No. 130, very young, December.

63. *Ctenosaura pectinata* (Wiegmann).

Cycluru pectinata Wiegmann, Herp. Mex., 1834, p. 42, tab. 2.

Ctenosaura pectinata, Duméril et Bocourt, Miss. scient. Mex., III, 1874, p. 140.

Vulg.—Iguana.

Hab.—State of Puebla. Izucar de Matamoras, Nos. 320, 363 ♂. Tlapanalá (Izucar de Matamoros), Nos. 188, 189, 190, 191, November.

64. *Uta bicarinata* (A. Duméril).

Phymatolepis bicarinatus, A. Duméril, Arch. Mus. Paris, VIII, 1856, p. 549, pl. XXIII, figs. 2, 2a, 2b; Duméril et Bocourt, Miss. scient. Mex., III, 1874, p. 165, pl. XVIIbis, figs. 9, 9a, 9b.

Uta bicarinata, Cope, Proc. Acad. Phila., 1864, p. 117.

Vulg.—Lagartija.

Hab.—State of Puebla. Tlapanalá (Izucar de Matamoros), Nos. 127, 128, November.

65. *Sceloporus torquatus formosus* (Wiegmann).

Sceloporus formosus, Wiegmann, Herp. Mex., 1834, p. 50, pl. VII, fig. 2; Duméril et Bocourt, Miss. scient. Mex., III, p. 182, pl. XVIII, figs. 3, 3a, 3b, 3c.

Sceloporus torquatus formosus, Cope, Proc. Am. Philos. Soc., 1885, p. 402.

Vulg.—Xintete.

Hab.—State of Vera Cruz. Jalapa, Nos. 354, 355, ? 356, young.

66. *Sceloporus spinosus* Wiegmann.

Sceloporus spinosus, Wiegmann, Isis, 1828, p. 370; Duméril et Bocourt, Miss. scient. Mex., III, 1874, p. 174.

Vulg.—Lagartija.

Hab.—State of Puebla. Tlapanalá (Izucar de Matamoros), Nos. 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, November; Tehuacan, No. 146, October.

67. *Sceloporus graciosus* Baird & Girard.

Sceloporus graciosus, Baird & Girard, Proc. Ac. Philad., 1852, p. 69; Cope, Proc. Am. Phil. Soc., 1885, p. 397.

Sceloporus gracilis, Baird & Girard, Proc. Ac. Philad., 1852, p. 175; Duméril et Bocourt, Miss. scient. Mex., III, 1874, p. 190, pl. XVIII, figs. 4, 4a, 4b, 4c.

68. *Sceloporus grammicus* Wiegmann.

Sceloporus grammicus, Wiegmann, Isis, 1828, p. 370; Herp. Mex., 1834, p. 51; Duméril et Bocourt, Miss. scient. Mex., III, p. 192, pl. XVIII^{bis}, figs. 12, 12a, 12b.

Vulg.—Lagartija.

Hab.—State of Puebla. Tlapanalá (Izucar de Matamoros), Nos. 151, 152, 153, 154, 155, 156, 157, 158.

69. *Sceloporus microlepidotus* Wiegmann.

Sceloporus grammicus. Var α Wiegmann, Isis, 1828, p. 370.

Sceloporus microlepidotus, Wiegmann, Herp. Mex., 1834, p. 51; Duméril et Bocourt, Miss. scient. Mex., III, 1874, p. 194, pl. XVIII^{bis}, figs. 13, 13a, 13b, 13c, 13d.

Vulg.—Lagartija.

Hab.—State of Puebla. Teziutlan, Nos. 165, 166, 167, 168, 169, 170, 171, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, December. Puebla, Nos. 160, 321, 322, 323, 324.

70. *Sceloporus aeneus* Wiegmann.

Sceloporus aeneus, Wiegmann, Isis, 1828, p. 370; Herp. Mex., 1834, p. 52; Duméril et Bocourt, Miss. scient. Mex., III, 1874, p. 205, pl. XVIII^{bis}, figs. 4, 4a, 4b.

Vulg.—Lagartija de tierra, Cuije.

Hab.—State of Puebla. Tlapanalá (Izucar de Matamoros), No. 142, November. Puebla, No. 311, var.

71. *Sceloporus scalaris* Wiegmann.

Sceloporus scalaris, Wiegmann, Isis, 1828, p. 370; Herp. Mex., 1834, p. 50, pl. VIII, fig. 2; Duméril et Bocourt, Miss. scient. Mex., III, p. 202, pl. XVIII^{bis}, figs. 9, 9a, 9b.

Vulg.—Lagartija de tierra.

Hab.—State of Puebla. Nos. 312, 313, 314, 315.

72. *Sceloporus variabilis* Wiegmann.

Sceloporus variabilis, Wiegmann, Herp. Mex., 1834, p. 51; Duméril et Bocourt, Miss. scient. Mex., III, 1874, p. 200, pl. XVIII^{bis}, figs. 1, 1a, 1b, pl. XIX, fig. 2.

Vulg.—Lagartija.

Hab.—State of Puebla. Tlapanalá (Izucar de Matamoros), No. 129, November.—State of Vera Cruz. Jicaltepec (Jalapa), No. 164, December. Jalapa, Nos. 140, 159, 325, 326, 327, 328.

73. *Phrynosoma orbiculare* (Linnæus).

Lacerta orbicularis, Linnæus, Syst. Nat., I, 1758, p. 206; I, 1766, p. 365.

Phrynosoma orbiculare, Wiegmann, Isis, 1828, p. 367; Herp. Mex., 1834, p. 53, tab. VIII, fig. 1.

Tapaya orbicularis, Hernandez, Duméril et Bocourt, Miss. scient. Mex., III, 1874, p. 221, pl. XI, figs. 1, 1a, b, c, d, e, f, g.

Vulg.—Camaleon.

Hab.—State of Puebla. Puebla, Nos. 107, 108, 316, 317, 318, 319, young. Teziutlan, No. 117, December.

74. *Phrynosoma asio* Cope.

Phrynosoma asio, Cope, Proc. Ac. Philad., 1864, p. 178.

Batrachosoma asio, Cope, Duméril et Bocourt, Miss. scient. Mex., III, p. 241, pl. XVII, figs. 9, 9a, 9b, 9c.

Hab.—State of Chiapas, ? No. 266.

75. *Phrynosoma cornutum* (Harlan).

Agama cornuta, Harlan, Journ. Acad. Philad., 1825, p. 299, pl. 20.

Phrynosoma cornutum, Gray, Griff. A. K., Syn. Rep., IX, 1831, p. 45; Duméril et Bocourt, Miss. scient. Mex., III, p. 236, pl. XII, figs. 9, 9a, 9b, 9c, 9d, 9e, 9f.

Vulg.—Camaleon.

Hab.—State of Chihuahua. Huajuguilla (Jimenez), No. 100, September.

FAM. ANGUIDÆ.

76. *Barissia imbricata* (Wiegmann).

Gerrhonotus imbricatus, Wiegmann, Isis, 1828, p. 381; Herp. Mex., 1834, p. 34, tab. X, figs. 2, 5.

Barissia imbricata, Gray, Cat. Liz. Brit. Mus., 1845, p. 55.

Gerrhonotus (Barissia) imbricatus, Wiegmann, Duméril et Bocourt, Miss. scient. Mex., 1879, p. 363, pl. XXI B, figs. 1, 1a, 2, 2a.

Vulg.—Lagartija, Cuije.

Hab.—State of Puebla. Puebla, Nos. 163, 306.

77. *Gerrhonotus liocephalus* Wiegmann.

Gerrhonotus liocephalus, Wiegmann, Isis, 1828, p. 381; Duméril et Bocourt, Miss. scient. Mex., III, 1878, p. 342, pl. XXI A, figs. 1, 2, 2a.

Vulg.—Lagartija.

Hab.—State of Puebla. Hueytamaleo (Teziutlan), Nos. 192, 193, December.—State of Vera Cruz. Jicaltepec (Jalapa), No. 149, December.

78. *Diploglossus steindachneri* Cope.

Diploglossus steindachneri, Cope, Proc. Acad. Philad., 1864, p. 179.

Diploglossus (celestus) steindachneri, Cope; Duméril et Bocourt, Miss. scient. Mex., III, p. 383, figs. 3, 3a, 3b.

Vulg.—Eslaboncillo.

Hab.—State of Vera Cruz. Jalapa, Nos. 333, 334, 335.

FAM. TEIIDÆ.

79. *Cnemidophorus undulatus* Wiegmann.

Cnemidophorus undulatus Wiegmann, Herp. Mex., I, 1834, p. 27.

Ameiva undulata Wiegmann, Duméril et Bocourt, Miss. Scient. Mex., III, 1874, p. 254, pl. XXA, fig. 7, 7a, 7b, 7c, 7d, 7e, pl. XXB, fig. 1.

Vulg.—Lagartija.

Hab.—State of Vera Cruz. Jicaltepec (Jalapa), Nos. 134, 135, 136, December.

80. *Cnemidophorus sexlineatus* (Linnaeus).

Lacerta 6-lineata Linnaeus, Syst. Nat., I, 1766, p. 364.

Cnemidophorus sexlineatus Duméril et Bibron, Herp. gen., V, 1839 (p. 131). Duméril et Bocourt, Miss. Scient. Mex., III, 1874, p. 273, pl. XXC, fig. 11, 11a, 11b, 11c, 11d.

Vulg.—Lagartija, Cuije.

Hab.—State of Puebla. Tlapanalá (Izucar de Matamoros), Nos. 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, November; Puebla, Nos. 307, 308.

81. *Cnemidophorus communis* Cope.

Cnemidophorus communis Cope, Proc. Am. Philos. Soc., 1877 (p. 95); 1879, p. 261.

Vulg.—Lagartija, Cuije.

Hab.—State of Puebla. Tlapanalá (Izucar de Matamoros), No. 125, November; Izucar de Matamoros, Nos. 141, 147.

82. *Cnemidophorus costatus* Cope.

Cnemidophorus costatus Cope, Proc. Am. Philos. Soc., 1877, p. 95.

Vulg.—Cuije.

Hab.—State of Puebla. Puebla, Nos. 309, 310.

83. *Cnemidophorus guttatus* Wiegmann.

Cnemidophorus guttatus Wiegmann, Herp. Mex., 1834, p. 29. Duméril et Bocourt, Miss. Scient., Mex., III, p. 285, pl. XXC, fig. 4, 4a, 4b, 4c, 4d.

Vulg.—Cuije.

Hab.—State of Vera Cruz. Jalapa, No. 331 var.

84. *Cnemidophorus lineatissimus* Cope.

Cnemidophorus lineatissimus Cope, Proc. Am. Philos. Soc., 1877, p. 94.

Vulg.—Cuije.

Hab.—State of Puebla. Chiantla, No. 148 (obsoletus.)

FAM. SCINCIDÆ.

85. *Oligosoma gemmingeri* Cope.

Oligosoma gemmingeri Cope, Proc. Acad. Philad., 1864, p. 180.

Lygosoma (mocoa) Gemmingerii Cope, Duméril et Bocourt, Miss. Scient. Mex., III, p. 449.

Vulg.—Eslaboncillo.

Hab.—State of Vera Cruz. Jalapa, Nos. 332, 336.

86. *Eumeces furcirostris* Cope.

Eumeces furcirostris Cope, Proc. Am. Philos. Soc., 1884, p. 169. (Printed March 7, 1885.)

Vulg.—Lagartija rayada.

Hab.—State of Puebla. Teziutlan, Nos. 172, 173, 174, December.

FAM. ANELYTROPSIDÆ.

87. *Anelytropsis papillosum* Cope.

Anelytropsis papillosum Cope, Proc. Am. Phil. Soc., 1885, p. 380.

Vulg.—Culebra chica.

Hab.—State of Vera Cruz. Jalapa, No. 87.

The present form is essentially interesting as introducing for the first time to the Western continent the family of the Anelytropidæ, or the Typhlopthalm lizards with the eye entirely concealed, and with the tongue scaly. The importance of this discovery is considerable, as it shows that the scincoid lizards have undergone in the New World the same degenerative process as in the Old World, and in the same way. This is a new fact, even supposing that the Aniellidæ of America are a degenerate form of the same family, which is not probable. Dr. Boulenger believes* that that family is a degenerate type of the Anguid stem; a view in which I suspect he is correct. Anelytropsis is a degree further down in the scale than Aniella, in having the epidermis absolutely continuous over the eye, as in other members of the family of Anelytropidæ, and as in the Typhlopidae family of snakes. As in other forms of this character, the life of this type is doubtless subterranean, which accounts for its having so long escaped observation.—E. D. COPE, l. c.

* Annals and Magazine of Natural History, 1885, p. 121.

CHELONIA.

FAM. EMYDIDÆ.

88. *Cinosternon leucostomum* A. Duméril.

Cinosternon leucostomum Dum., Bib.-A. Duméril, Arch. Mus. Paris, VI, 1852, p. 239, pl. XVII, fig. 1, 2, 3.

Cinosternon leucostomum A. Dum., Duméril et Bocourt, Miss. scient. Mex., III, 1873, p. 25.

Vulg.—Tortuga.

Hab.—State of Puebla. Izucar de Matamoros, No. 285 ♀, 287 ♂, December—Disecados—; Laguna de S. Baltazar (Puebla), Nos. 276 ♀, 289 ♂. State of Chiapas,? Nos. 261, 264. Territory of Baja California? No. 357.

FAM. CHELONIDÆ.

89. *Chelonia imbricata* (Linnæus).

Testudo imbricata Linnaeus, Syst. Nat., I, p. 350.

Chelonia imbricata Schweigger, Prodr. Arch. Koenisb., I, pp. 291, 408.

Vulg.—Tortuga de carey.

Hab.—Territory of Baja California. La Paz, Nos. 358, 359.

CROCODILIA.

FAM. CROCODILIDÆ.

90. *Crocodilus americanus* Schneider.

Crocodilus americanus Schneider, Hist. Amph., fasc. 2, 1801 (p. 167). Duméril et Bocourt, Miss. Scient. Mex., III, 1873, p. 30.

Vulg.—Lagarto.

Hab.—State of Vera Cruz. Vera Cruz, No. 278 ♂, young. Locality? No. 271, young.

BATRACHIA.

FAM. RANIDÆ.

91. *Rana halecina* Kalm.

Rana halccina Kalm, Resa Til Norra Am., III, 1761, (p. 46).

Rana halecina, Linné-Bocchi, Miss. Scient. Mex., III, II, 1881, p. 10.

Vulg.—Rana.

Hab.—State of Puebla. Puebla, Nos. 118, 119, 120, 121, 122, 123, 124, 342, 345, 346, September.—State of Vera Cruz. Jalapa, No. 351.

FAM. CYSTIGNATHIDÆ.

92. *Lithodytes rhodopis* Cope.

Lithodytes rhodopis Cope, Proc. Ac. Philad., 1866 (p. 324).

Hylodes rhodopis Cope-Bocchi, Miss. Scient. Mex., III, II, 1881, p. 50.

Vulg.—Rana.

Hab.—State of Puebla. Puebla, No. 109.—State of Vera Cruz. Jalapa, No. 350.

FAM. BUFONIDÆ.

93. *Bufo compactilis* Wiegmann.*Bufo compactilis* Wiegmann, Isis, 1833, p. 661.*Vulg.*—Zapo.*Hab.*—State of Puebla. Puebla, Nos. 340, 341.94. *Bufo intermedius* Günther.*Bufo intermedius* Günther, Cat. Batr. Brit. Mus. (p. 140, pl. IXa). Bocchi, Miss. Scient. Mex., III, II, 1882, p. 78.*Vulg.*—Zapo.*Hab.*—State of Puebla. Izucar de Matamoros, No. 103, November.95. *Bufo cognatus* Say.*Bufo cognatus* Say, Long's Exped., II, 1823, p. 190.*Vulg.*—Zapo.*Hab.*—State of Durango. Villa Lerdo, No. 99, September.96. *Bufo marinus* (Linnaeus).*Rana marina* Linnaeus, Syst. Nat., I, 1758, p. 211; I, 1766, p. 356.*Bufo marinus* Schneider, Hist. Amph., fasc. I, 1801 (p. 219).*Bufo marinus* Linné.-Bocchi, Miss. Scient. Mex., III, II, 1882, p. 82.*Vulg.*—Zapo.*Hab.*—State of Vera Cruz. Jicaltepec (Jalapa), No. 106, December. From the belly of *Sibon annulatum*.97. *Bufo valliceps* Wiegmann.*Bufo valliceps* Wiegmann, Isis, 1833, p. 657.*Vulg.*—Zapo.*Hab.*—State of Vera Cruz. Jalapa, Nos. 349, ? 344, young.98. *Bufo canaliferus* Cope.*Bufo canaliferus* Cope, Proc. Am. Philos. Soc., 1877, p. 85.*Vulg.*—Zapo.*Hab.*—State of Chiapas. ?, No. 268.

FAM. HYLIDÆ.

99. *Hyla nigropunctata* Boulenger.*Hyla nigropunctata* Boulenger, Batr. Sal. Brit. Mus., 1882, p. 366.*Vulg.*—Rana.*Hab.*—State of Puebla. Tezintlan, Nos. 104, 105, December.100. *Hyla gracilipes* Cope.*Hyla gracilipes* Cope, Proc. Acad. Philad., 1865 (p. 194). Bocchi, Miss. Scient. Mex., III, II, 1881, p. 36.*Vulg.*—Ranita.*Hab.*—State of Puebla. Puebla, Nos. 110, 111, 112, 113, 114, 115, 116, 343, 347, 348.

101. *Smilisca baudini* (Duméril et Bibron).*Hyla baudini* Duméril et Bibron, Erp. gen., VIII, 1841, p. 566. Bocchi, Miss.

Scient. Mex., III, II, 1881, p. 29, pl. XIV, figs. 4, 4a, 4b.

Smilisca baudini Cope, Proc. Ac. Philad., 1865 (p. 194).*Vulg.*—Rana.*Hab.*—State of Vera Cruz. Jicaltepec (Jalapa), Nos. 98, 101, 102, December.

FAM. SALAMANDRIDÆ.

102. *Amblystoma tigrinum* Green.*Salamandra tigrina* Green, Jour. Aead. Philad., V, p. 116.*Amblystoma tigrinum* Baird, Jour. Aead. Philad. (2), I, p. 284.*Vulg.*—Axolotl, Ajolote.*Hab.*—State of Hidalgo. Huasca, ?, No. 274.103. *Spelerpes bellii* Gray.*Spelerpes bellii* Gray, Cat. Brit. Mus., (p. 46). Bocchi, Scient. Mex., III, II, 1883, p. 110, pl. XX bis, figs. 1, 2, 3.*Vulg.*—Tlaconete.*Hab.*—State of Vera Cruz. Jalapa, No. 137.*Index to the genera of reptilia and batrachia, with the corresponding numbers of their first species.*

Genera.	No.	Genera.	No.
<i>Adelphicos</i>	45	<i>Herpetodryas</i>	14
<i>Agama</i>	75	<i>Himantodes</i>	10
<i>Amblystoma</i>	102	<i>Hyla</i>	99
<i>Ameiva</i>	79	<i>Hylodes</i>	92
<i>Anelytropsis</i>	87	<i>Iguana</i>	61
<i>Anolis</i>	55	<i>Lacerta</i>	73
<i>Atropus</i>	49	<i>Læmanctus</i>	58
<i>Barisia</i>	76	<i>Lampropeltis</i>	32
<i>Basiliscus</i>	60	<i>Leptognathus</i>	4
<i>Batrachosoma</i>	74	<i>Leptophis</i>	12
<i>Boa</i>	3	<i>Lithodytes</i>	92
<i>Bothrops</i>	50	<i>Lygosoma</i>	85
<i>Bufo</i>	93	<i>Ninia</i>	27
<i>Caudisoma</i>	52	<i>Oligosoma</i>	85
<i>Chameleopsis</i>	57	<i>Ophiolorus</i>	32
<i>Chelonia</i>	89	<i>Ophryacus</i>	49
<i>Chionactis</i>	41	<i>Oxyrhopus</i>	30
<i>Cinosternon</i>	88	<i>Pliocercus</i>	37
<i>Cnemidophorus</i>	79	<i>Phamnophis</i>	22
<i>Colconyx</i>	54	<i>Phrynosoma</i>	73
<i>Coluber</i>	15	<i>Phymatolepis</i>	64
<i>Coniophanis</i>	34	<i>Rabdosoma</i>	43
<i>Conophis</i>	31	<i>Rana</i>	91
<i>Coronella</i>	35	<i>Rhadinæa</i>	40
<i>Corytophanes</i>	57	<i>Rhinechis</i>	19
<i>Crocodilus</i>	90	<i>Salamandra</i>	102
<i>Crotalus</i>	51	<i>Sceloporus</i>	65
<i>Ctenosaura</i>	62	<i>Sibon</i>	6
<i>Cyclura</i>	62	<i>Smilisca</i>	101
<i>Dactyloa</i>	55	<i>Spelerpes</i>	103
<i>Diploglossus</i>	78	<i>Spilotes</i>	16
<i>Dipsas</i>	9	<i>Stenostoma</i>	1
<i>Drymobius</i>	13	<i>Storeria</i>	29
<i>Dryophis</i>	11	<i>Streptophorus</i>	27
<i>Elaphis</i>	19	<i>Teniophis</i>	33
<i>Elaps</i>	46	<i>Tantilla</i>	42
<i>Enicognathus</i>	38	<i>Testudo</i>	89
<i>Erythrolamprus</i>	33	<i>Trimerophodon</i>	8
<i>Eumecces</i>	86	<i>Tropidodipsas</i>	5
<i>Eutainia</i>	22	<i>Tropidomotus</i>	20
<i>Gerrhonotus</i>	77	<i>Uropsophus</i>	53
<i>Hapsidophrys</i>	12	<i>Uta</i>	64